

Service Manual

PIONEER®
The Art of Entertainment

DEX-P1R/UC



ORDER NO.
CRT2206

MULTI-CD CONTROL DSP CD PLAYER WITH RDS/ID-LOGIC TUNER

DEX-P1R

UC

MULTI-CD CONTROL DSP HIGH POWER CD PLAYER WITH FM/AM TUNER

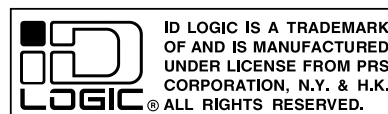
DEH-P946

ES

MULTI-CD CONTROL DSP CD PLAYER WITH FM/AM TUNER

DEX-P1

ES



COMPACT
disc
DIGITAL AUDIO

- See the separate manual CX-680(CRT2216) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of H1 series.

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● **CD Player Service Precautions**

1. For pickup unit(CXX1290) handling, please refer to "Disassembly"(CX-680 Service Manual CRT2216).
During replacement, handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).
2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
3. Please checking the grating after changing the service pickup unit(see page 96).

1. SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

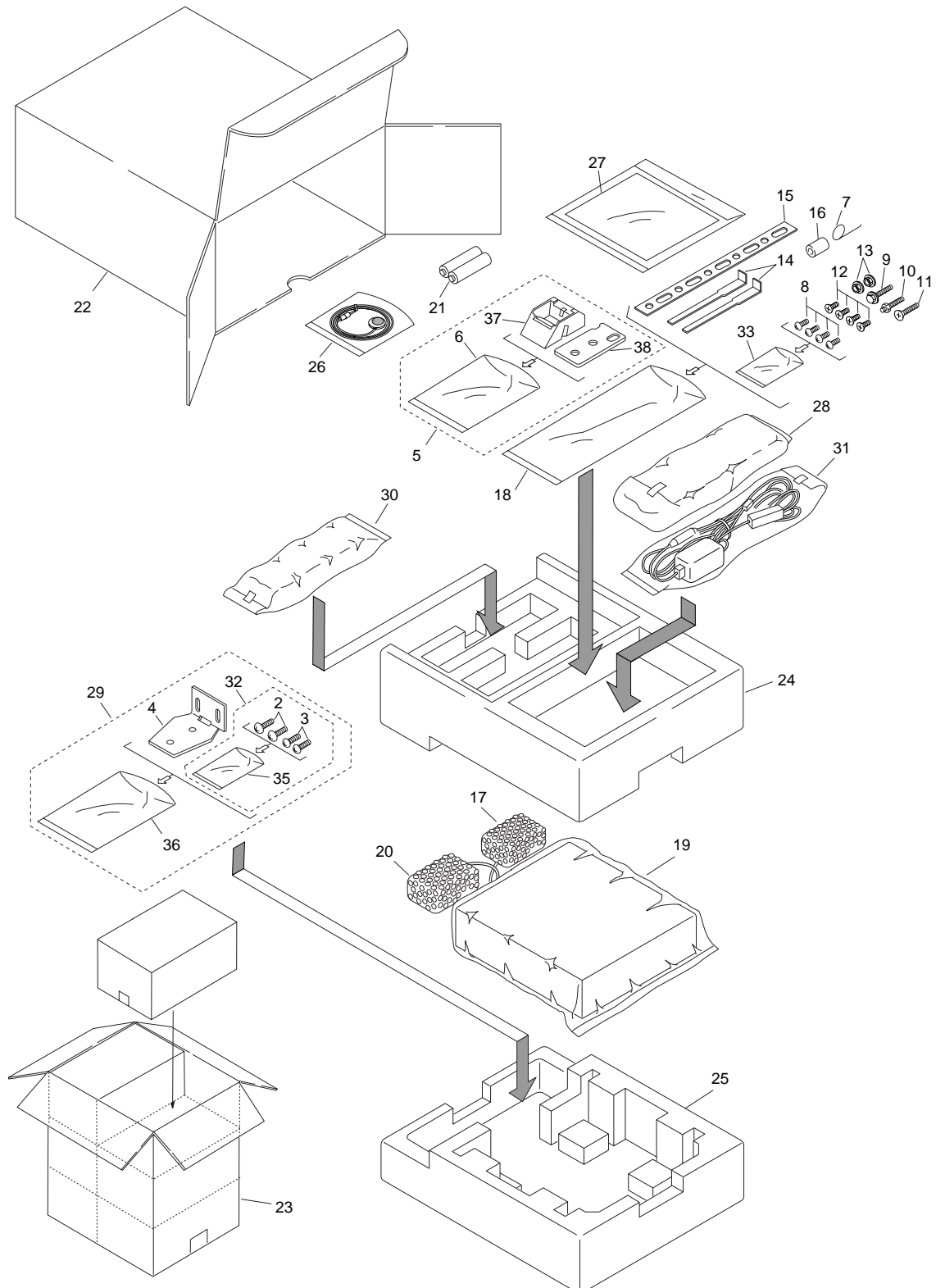
WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING

● DEX-P1R/UC, DEX-P1/ES



NOTE:

- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

● PACKING SECTION PARTS LIST

(1) PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	.....		26	Microphone Assy	CPM1022
2	Screw	BNC40P120FZK	27-1	Owner's Manual	See Contrast table(2)
3	Screw	BPZ30P100FZK	27-2	Owner's Manual	See Contrast table(2)
4	Bracket	CZN6467	27-3	Installation Manual	See Contrast table(2)
5	Base Assy	CEA2426	27-4	Installation Manual	See Contrast table(2)
6	Polyethylene Bag	CZE3188	* 27-5	Caution Card	See Contrast table(2)
7	Spring	CBH-865	* 27-6	Card	CRP1183
8	Screw	BMZ50P060FMC	27-7	Polyethylene Bag	CEG1116
9	Screw	See Contrast table(2)	* 27-8	Warranty Card	See Contrast table(2)
10	Screw	CBA1002	* 27-9	Card	See Contrast table(2)
11	Screw	CBA1120	* 27-10	Caution Card	See Contrast table(2)
12	Screw	CMZ50P060FMC	28	Case Assy	CXA7194
13	Nut	See Contrast table(2)	29	Bracket Assy	CEA2346
14	Handle	CNC5395	30	Remote Control Assy	See Contrast table(2)
15	Strap	See Contrast table(2)	30-1	Polyethylene Bag	CEG1011
16	Bush	CNV1917	31	Cord Assy	CDE5655
17	Air Cushioned Bag	CEG1080	32	Screw Assy	CZE3198
* 18	Polyethylene Bag	CEG-158	* 33	Polyethylene Bag	CEG-127
19	Polyethylene Bag	See Contrast table(2)	34	.....
20	Air Cushioned Bag	CEG1192	* 35	Polyethylene Bag	CEG-127
21	Battery	CEX1006	* 36	Polyethylene Bag	CZE3201
22	Carton	See Contrast table(2)	* 37	Base	CNS5031
23	Contain Box	See Contrast table(2)	* 38	Sheet	CZA3371
24	Protector	CHP2032			
25	Protector	CHP2033			

● Owner's Manual

Model	Part No.	Language
DEX-P1R/UC	CRB1514	English
DEX-P1/ES	CRD2730	English, Spanish
	CRD2731	Portuguese, Arabic

● Installation Manual

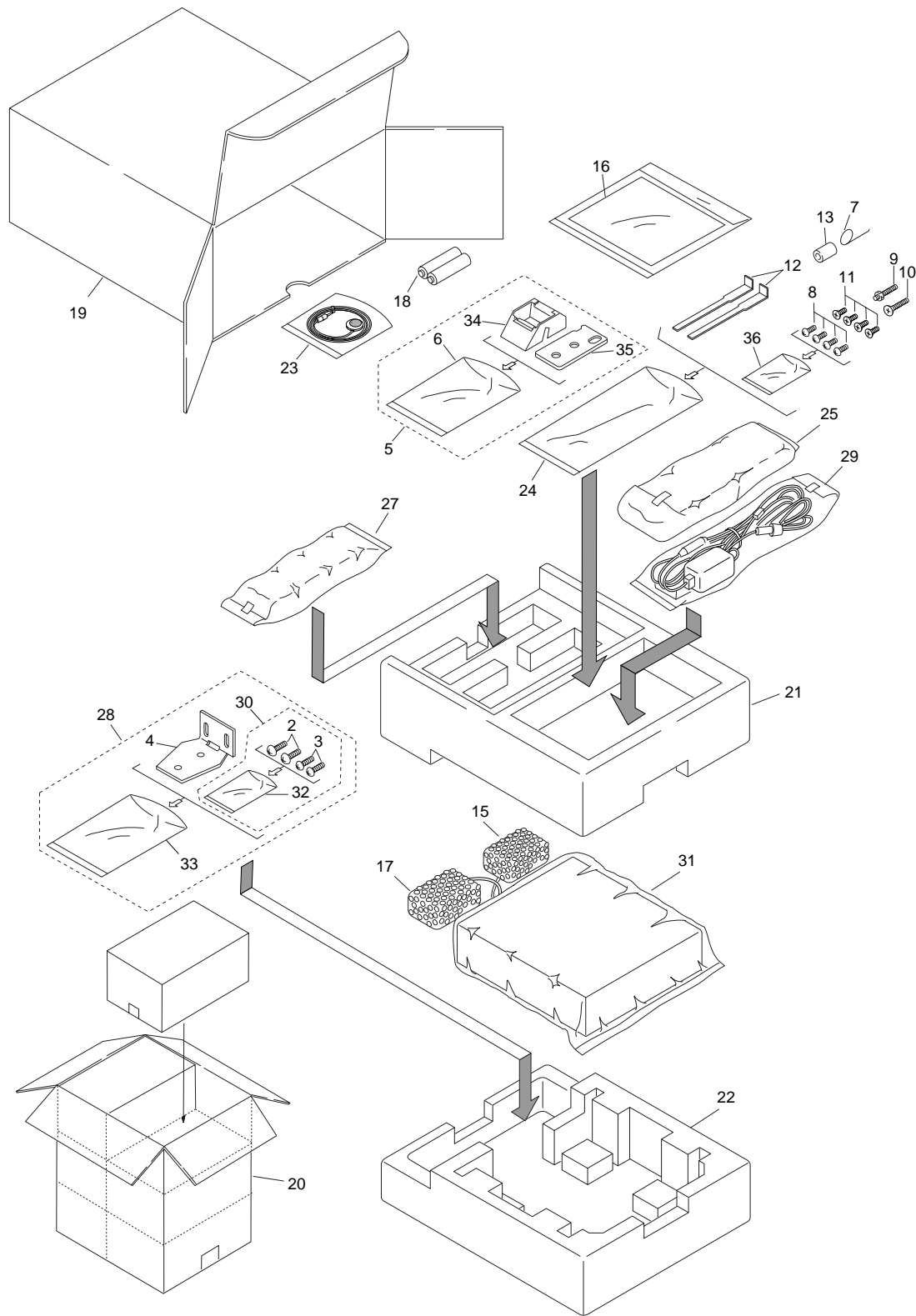
Model	Part No.	Language
DEX-P1R/UC	CRB1515	English
DEX-P1/ES	CRD2660	English, Spanish
	CRD2661	Portuguese, Arabic

(2) CONTRAST TABLE

DEX-P1R/UC and DEX-P1/ES are constructed same except for the following:

Mark No.	Symbol and Description	Part No.	
		DEX-P1R/UC	DEX-P1/ES
9	Screw	CBA-102	Not used
13	Nut	NF50FMC	Not used
15	Strap	CNF-111	Not used
19	Polyethylene Bag	CEG1185	*CEG1088
22	Carton	CHG3501	CHG3503
23	Contain Box	CHL3501	CHL3503
27-1	Owner's Manual	CRB1514	CRD2730
27-2	Owner's Manual	Not used	CRD2731
27-3	Installation Manual	CRB1515	CRD2660
27-4	Installation Manual	Not used	CRD2661
* 27-5	Caution Card	CRN1049	Not used
* 27-8	Warranty Card	CRY1070	Not used
* 27-9	Card	Not used	CRP1186
*27-10	Caution Card	CRN1049	Not used
30	Remote Control Assy	CXB2758	CXB2764

● DEH-P946/ES



● PACKING SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	.....		*	16-6 Card	CRP1183
2	Screw	BNC40P120FZK	*	16-7 Card	CRP1186
3	Screw	BPZ30P100FZK		17 Air Cushioned Bag	CEG1192
4	Bracket	CZN6467		18 Battery	CEX1006
5	Base Assy	CEA2426		19 Carton	CHG3500
6	Polyethylene Bag	CZE3188		20 Contain Box	CHL3500
7	Spring	CBH-865		21 Protector	CHP2032
8	Screw	BMZ50P060FMC		22 Protector	CHP2033
9	Screw	CBA1002		23 Microphone Assy	CPM1022
10	Screw	CBA1120	*	24 Polyethylene Bag	CEG-158
11	Screw	CMZ50P060FMC		25 Case Assy	CXA7194
12	Handle	CNC5395		26	
13	Bush	CNV1917		27 Remote Control Assy	CXB2655
14	.....			27-1 Polyethylene Bag	CEG1011
15	Air Cushioned Bag	CEG1080		28 Bracket Assy	CEA2346
16-1	Polyethylene Bag	CEG1116		29 Cord Assy	CDE5656
16-2	Owner's Manual	CRD2658		30 Screw Assy	CZE3198
16-3	Owner's Manual	CRD2659	*	31 Cover	CEG1088
16-4	Installation Manual	CRD2660	*	32 Polyethylene Bag	CEG-127
16-5	Installation Manual	CRD2661	*	33 Polyethylene Bag	CZE3201
			*	34 Base	CNS5031
			*	35 Sheet	CZA3371
			*	36 Polyethylene Bag	CEG-127

● Owner's Manual

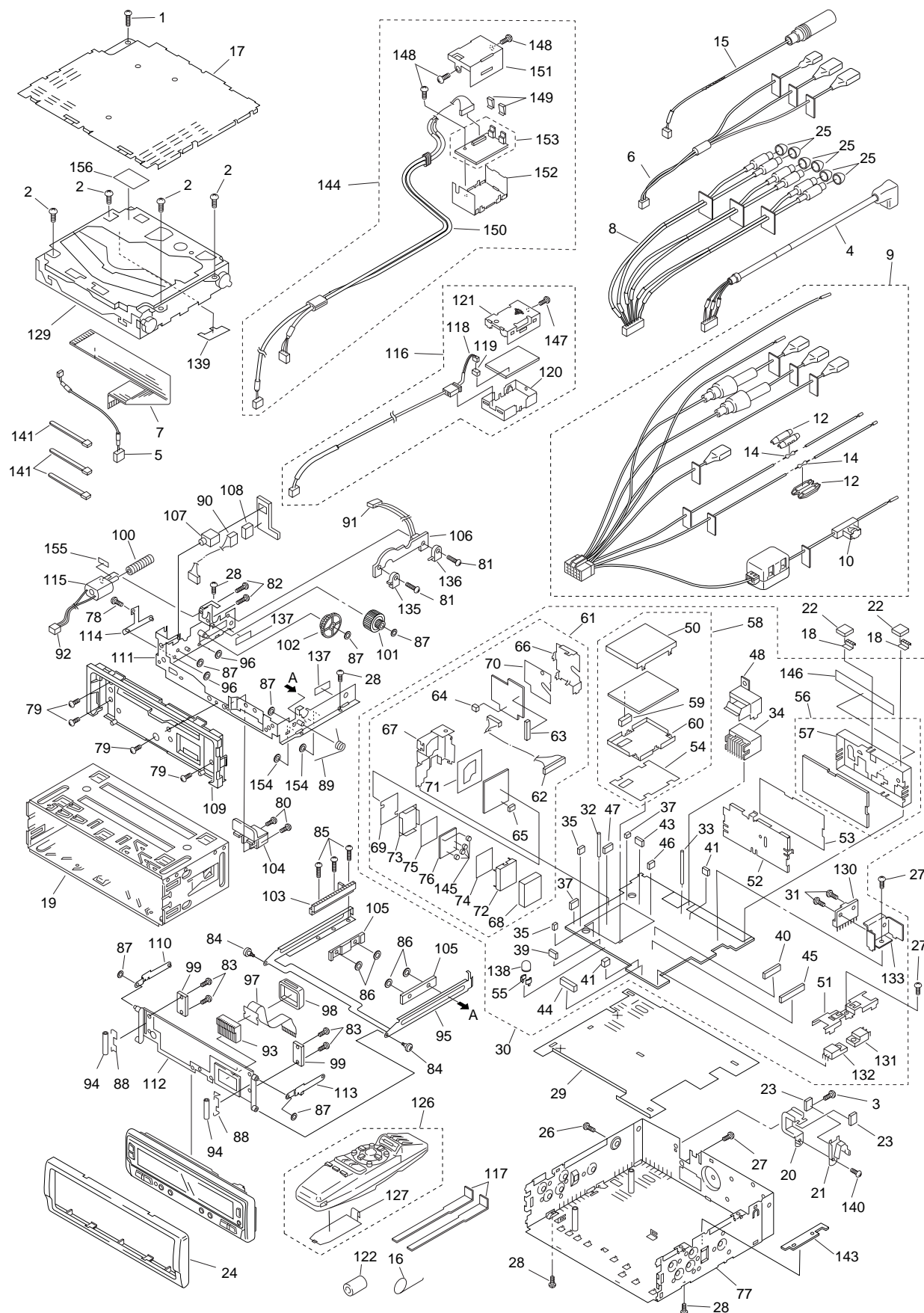
Model	Part No.	Language
DEH-P946/ES	CRD2658	English, Spanish
	CRD2659	Portuguese, Arabic

● Installation Manual

Model	Part No.	Language
DEH-P946/ES	CRD2660	English, Spanish
	CRD2661	Portuguese, Arabic

2.2 EXTERIOR (1)

● DEX-P1R/UC, DEX-P1/ES



● EXTERIOR (1) SECTION PARTS LIST

(1) PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ30P040FMC	46	Connector(CN681)	CKS3583
2	Screw	BSZ26P050FMC	47	Connector(CN222)	CKS3781
3	Screw	BSZ30P055FMC	48	Holder	CNC8011
4	Cord Assy	CDE5785	49	.....
5	Cord	CDE5536	50	Case	CNC8014
6	Cord Assy	See Contrast table(2)	51	Holder	CNC8013
7	Connector	CDE5543	52	Holder	CNC8021
8	Cord Assy	CDE5545	53	Insulator	CNM4684
9	Cord Assy	CDE5655	54	Insulator	CNM5626
10	Fuse	CEK1001	55	Holder	CNV1906
11	.....		56	FM/AM Tuner Unit	See Contrast table(2)
12	Cap	CNS1472	57	Holder	See Contrast table(2)
13	.....		58	DSP Unit	CWX2213
14	Resistor	RS1/2PMF102J	59	Connector(CN3001)	CKS3782
15	Antenna Cable	CDH1115	60	Case	CNC8015
16	Spring	CBH-865	61	High Out Unit	CWX2215
17	Case	CNB2279	62	Cord Assy	CDE5555
18	Earth Terminal	CNC7358	63	Plug(CN4153)	CKS1045
19	Holder	CNC6798	* 64	Plug(CN4152)	CKS1613
20	Holder	CNC7566	65	Plug(CN4051)	CKS1614
21	Holder	CNC7753	66	Holder	CNC8009
22	Spacer	CNM4913	67	Holder	CNC7556
23	Cushion	CNM6062	68	Shield	CNC8010
24	Panel	CNS4553	69	Insulator	CNM4760
25	Cap	CNV2680	70	Insulator	CNM5650
26	Screw	BMZ30P040FMC	71	Insulator	CNM5651
27	Screw	BSZ30P055FMC	72	Shield	CNC6224
28	Screw	CBA1447	73	Shield	CNC6274
29	Insulator	CNM5627	74	Insulator	CNM4610
30	Tuner Amp Unit	See Contrast table(2)	75	Insulator	CNM4814
31	Screw	BSZ30P055FMC	76	D/D Converter Unit	CWM4538
32	Clamper	CEF1008	77	Chassis Unit	CXB2295
33	Clamper	CEF1009	78	Screw	BMZ20P030FMC
34	Plug(CN901)	CKM1278	79	Screw	BMZ20P030FZK
35	Plug(CN221,851)	CKS-783	80	Screw	BPZ20P060FMC
36	.....		81	Screw	CBA1060
37	Plug(CN141,852)	CKS-784	82	Screw	CBA1061
38	.....		83	Screw	CBA1082
39	Plug(CN131)	CKS-786	84	Screw	CBA1430
40	Plug(CN101)	CKS1044	85	Screw	CBA1415
41	Plug(CN451,804)	CKS1222	86	Washer	CBF1038
42	.....		87	Washer	CBF1039
43	Plug(CN803)	CKS1225	88	Spring	CBH2063
44	Connector(CN801)	CKS1564	89	Spring	CBH2086
45	Connector(CN671)	CKS2779	90	Cord	CDE5587

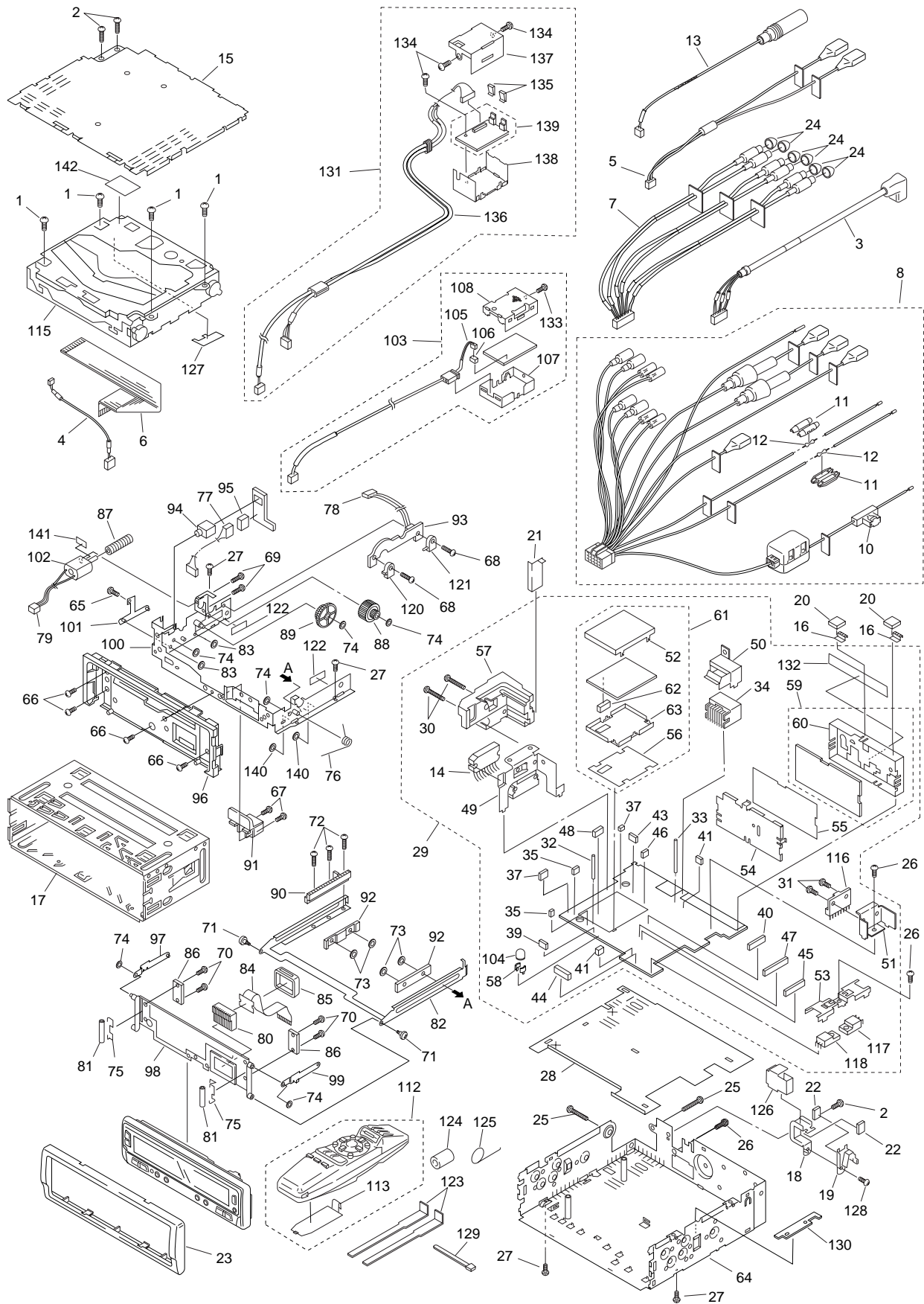
Mark No.	Description	Part No.	Mark No.	Description	Part No.
91	Cord	CDE5596	126	Remote Control Assy	See Contrast table(2)
92	Cord	CDE5597	127	Battery Cover	CNS5032
93	Socket	CKS2497	128	.....
94	Roller	CLA3458	129	CD Mechanism Module(H1)	CXK5101
95	Frame	CNC7548	130	IC(IC941)	PA2024A
96	Spacer	CNM5808	131	IC(IC871)	NJM78M05FA
97	PCB	CNP5065	132	Transistor(Q992)	2SD2396
98	Cover	CNS4841	133	Holder	CNC8012
99	Holder	CNV2141	134	.....
100	Gear	CNV5271	135	Switch(S951)	CSN1012
101	Torque Limiter Unit	CNV5272	136	Switch(S952)	CSN1022
102	Gear	CNV5273	137	Spacer	CNM5988
103	Rack	CNV5274	138	Lamp(IL801)	CEL1359
104	Lighting Conductor	CNV5276	139	Spacer	CNM6053
105	Guide	CNV5356	140	Screw	BSZ26P080FMC
106	Gathering PCB	CNX2961	* 141	Lock Tie	CNV-754
107	Mini Jack(CN4602)	CKN1015	142	.....
108	Plug(CN4601)	CKS-786	143	Guide Unit	CXB3234
109	Panel Unit	CXB2212	144	Inverter Assy	MWM9028
110	Arm Unit	CXB2215	145	Terminal (CN4001,4002,4003,4004)	CKF1023
111	Frame Unit	CXB2216	146	Spacer	CNM5996
112	Holder Unit	CXB2217	147	Screw	BSZ30P055FMC
113	Arm Unit	CXB2218	148	Screw	BSZ26P050FMC
114	Bracket Unit	CXB2598	149	Clip	MBK9001
115	Motor	CXM1085	150	Cord	MDE9018
116	ASL Unit	CWX2216	151	Holder	MNC9008
117	Handle	CNC5395	152	Holder	MNC9009
118	Cord	CDE5763	153	Inverter Unit	MWM9026
119	Plug(CN4501)	CKS-784	154	Spacer	CNM6069
120	Case	CNB2299	155	Spacer	CNM6093
121	Case	CNB2300	156	Cushion	CNM6065
122	Bush	CNV1917			
123	.....			
124	.....			
125	.....			

(2) CONTRAST TABLE

DEX-P1R/UC and DEX-P1/ES are constructed same except for the following:

Mark No.	Description	Part No.	
		DEX-P1R/UC	DEX-P1/ES
6	Cord Assy	CDE5538	CDE5539
30	Tuner Amp Unit	CWM5693	CWM5699
56	FM/AM Tuner Unit	CWE1472	CWE1485
57	Holder	CNC6554	CNC6555
126	Remote Control Assy	CXB2758	CXB2764

● DEH-P946/ES



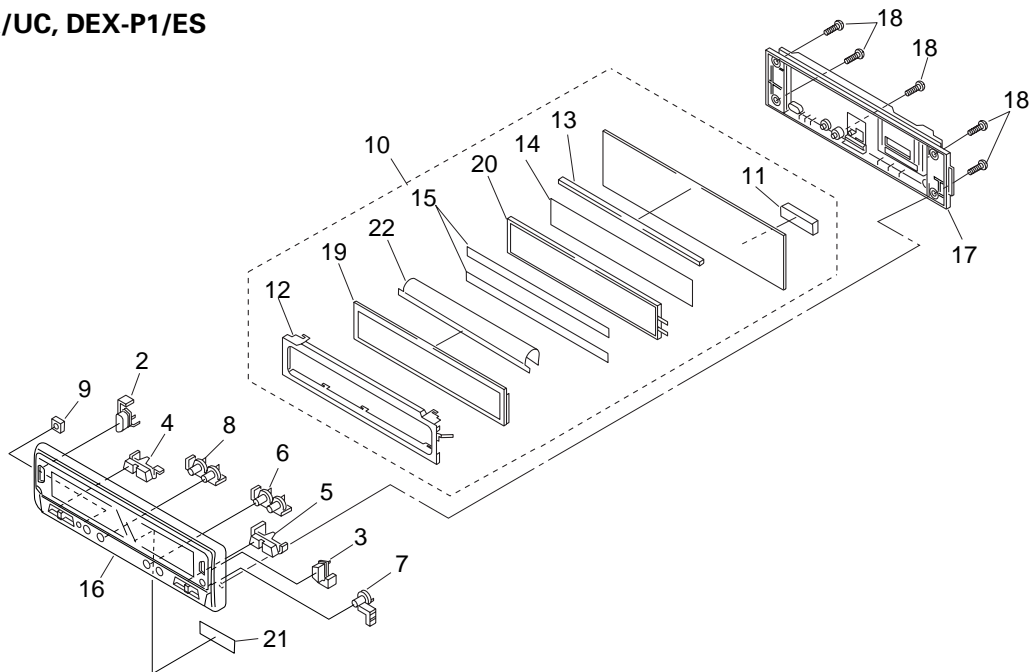
● EXTERIOR (1) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P050FMC	46	Connector(CN681)	CKS3583
2	Screw	BSZ30P055FMC	47	Connector(CN231)	CKS3592
3	Cord Assy	CDE5785	48	Connector(CN222)	CKS3781
4	Cord	CDE5536	49	Holder	CNC7554
5	Cord Assy	CDE5539	50	Holder	CNC8011
6	Connector	CDE5543	51	Holder	CNC8012
7	Cord Assy	CDE5625	52	Case	CNC8014
8	Cord Assy	CDE5656	53	Holder	CNC8013
9	.....		54	Holder	CNC8021
10	Fuse	CEK1136	55	Insulator	CNM4684
11	Cap	CNS1472	56	Insulator	CNM5626
12	Resistor	RS1/2PMF102J	57	Heat Sink	CNR1468
13	Antenna Cable	CDH1115	58	Holder	CNV1906
14	IC(IC301)	TDA7386	59	FM/AM Tuner Unit	CWE1485
15	Case	CNB2278	60	Holder	CNC6555
16	Earth Terminal	CNC7358	61	DSP Unit	CWX2213
17	Holder	CNC6798	62	Connector(CN3001)	CKS3782
18	Holder	CNC7566	63	Case	CNC8015
19	Holder	CNC7753	64	Chassis Unit	CXB2304
20	Spacer	CNM4913	65	Screw	BMZ20P030FMC
21	Spacer	CNM6052	66	Screw	BMZ20P030FZK
22	Cushion	CNM5811	67	Screw	BPZ20P060FMC
23	Panel	CNS5191	68	Screw	CBA1060
24	Cap	CNV2680	69	Screw	CBA1061
25	Screw	BMZ30P180FMC	70	Screw	CBA1082
26	Screw	BSZ30P055FMC	71	Screw	CBA1430
27	Screw	CBA1447	72	Screw	CBA1454
28	Insulator	CNM5627	73	Washer	CBF1038
29	Tuner Amp Unit	CWM5697	74	Washer	CBF1039
30	Screw	BMZ26P200FMC	75	Spring	CBH2063
31	Screw	BSZ30P055FMC	76	Spring	CBH2086
32	Clamper	CEF1008	77	Cord	CDE5587
33	Clamper	CEF1009	78	Cord	CDE5596
34	Plug(CN901)	CKM1278	79	Cord	CDE5597
35	Plug(CN221,851)	CKS-783	80	Socket	CKS2497
36	.....		81	Roller	CLA3458
37	Plug(CN141,852)	CKS-784	82	Frame	CNC7548
38	.....		83	Spacer	CNM5808
39	Plug(CN131)	CKS-786	84	PCB	CNP5065
40	Plug(CN101)	CKS1044	85	Cover	CNS4841
41	Plug(CN451,804)	CKS1222	86	Holder	CNV2141
42	.....		87	Gear	CNV5271
43	Plug(CN803)	CKS1225	88	Torque Limiter Unit	CNV5272
44	Connector(CN801)	CKS1564	89	Gear	CNV5273
45	Connector(CN671)	CKS2779	90	Rack	CNV5274

Mark No.	Description	Part No.	Mark No.	Description	Part No.
91	Lighting Conductor	CNV5276	116	IC(IC941)	PA2024A
92	Guide	CNV5356	117	IC(IC871)	NJM78M05FA
93	Gathering PCB	CNX2961	118	Transistor(Q992)	2SD2396
94	Mini Jack(CN4602)	CKN1015	119	.....
95	Plug(CN4601)	CKS-786	120	Switch(S951)	CSN1012
96	Panel Unit	CXB2211	121	Switch(S952)	CSN1022
97	Arm Unit	CXB2215	122	Spacer	CNM5988
98	Holder Unit	CXB2217	123	Handle	CNC5395
99	Arm Unit	CXB2218	124	Bush	CNV1917
100	Frame Unit	CXB2216	125	Spring	CBH-865
101	Bracket Unit	CXB2598	126	Holder	CNC8044
102	Motor	CXM1085	127	Spacer	CNM6053
103	ASL Unit	CWX2216	128	Screw	BSZ26P080FMC
104	Lamp(IL801)	CEL1359	* 129	Lock Tie	CNV-754
105	Cord	CDE5763	130	Guide Unit	CXB3234
106	Plug(CN4501)	CKS-784	131	Inverter Assy	MWM9028
107	Case	CNB2299	132	Spacer	CNM5996
108	Case	CNB2300	133	Screw	BSZ30P055FMC
109	.....		134	Screw	BSZ26P050FMC
110	.....		135	Clip	MBK9001
111	.....		136	Cord	MDE9018
112	Remote Control Assy	CXB2655	137	Holder	MNC9008
113	Battery Cover	CNS5032	138	Holder	MNC9009
114	.....		139	Inverter Assy	MWM9026
115	CD Mechanism Module(H1)	CXK5101	140	Spacer	CNM6069
			141	Spacer	CNM6093
			142	Cushion	CNM6065

2.3 EXTERIOR (2)

● DEX-P1R/UC, DEX-P1/ES



● EXTERIOR (2) SECTION PARTS LIST

(1) PARTS LIST

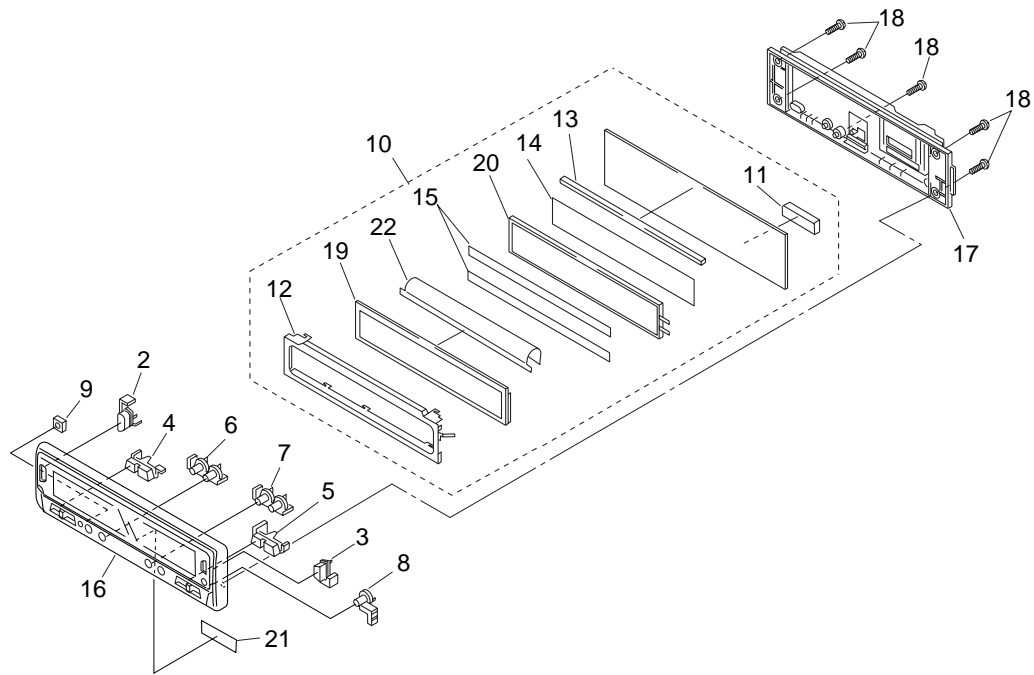
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	.....		11	Plug(CN1901)	CKS2496
2	Button(+,-)	CAC5486	12	Holder	CNC7547
3	Button(OPEN/EJECT)	CAC5488	13	Spacer	CNM5622
4	Button(S/A,CLOCK)	CAC5490	14	Spacer	CNM5623
5	Button(TRACK/SEEK)	CAC5494	15	Spacer	CNM5894
6	Button	CAC5499	16	Grille Unit	See Contrast table(2)
7	Button(SOURCE/OFF)	CAC5504	17	Cover Unit	CXB2208
8	Button	See Contrast table(2)	18	Screw	BPZ20P080FZK
9	Spacer	CNM5910	*	19 LCD(LCD1901)	See Contrast table(2)
10	Keyboard Unit	See Contrast table(2)	20	EL(EL1901)	CEL1580
			21	Spacer	CNM6021
			*	22 PCB	CNP5063

(2) CONTRAST TABLE

DEX-P1R/UC and DEX-P1/ES are constructed same except for the following:

Mark No.	Description	Part No.	
		DEX-P1R/UC	DEX-P1/ES
8	Button	CAC5638	CAC5498
10	Keyboard Unit	CWM5686	CWM5689
16	Grille Unit	CXB2201	CXB2206
*	19 LCD(LCD1901)	CAW1470	CAW1471

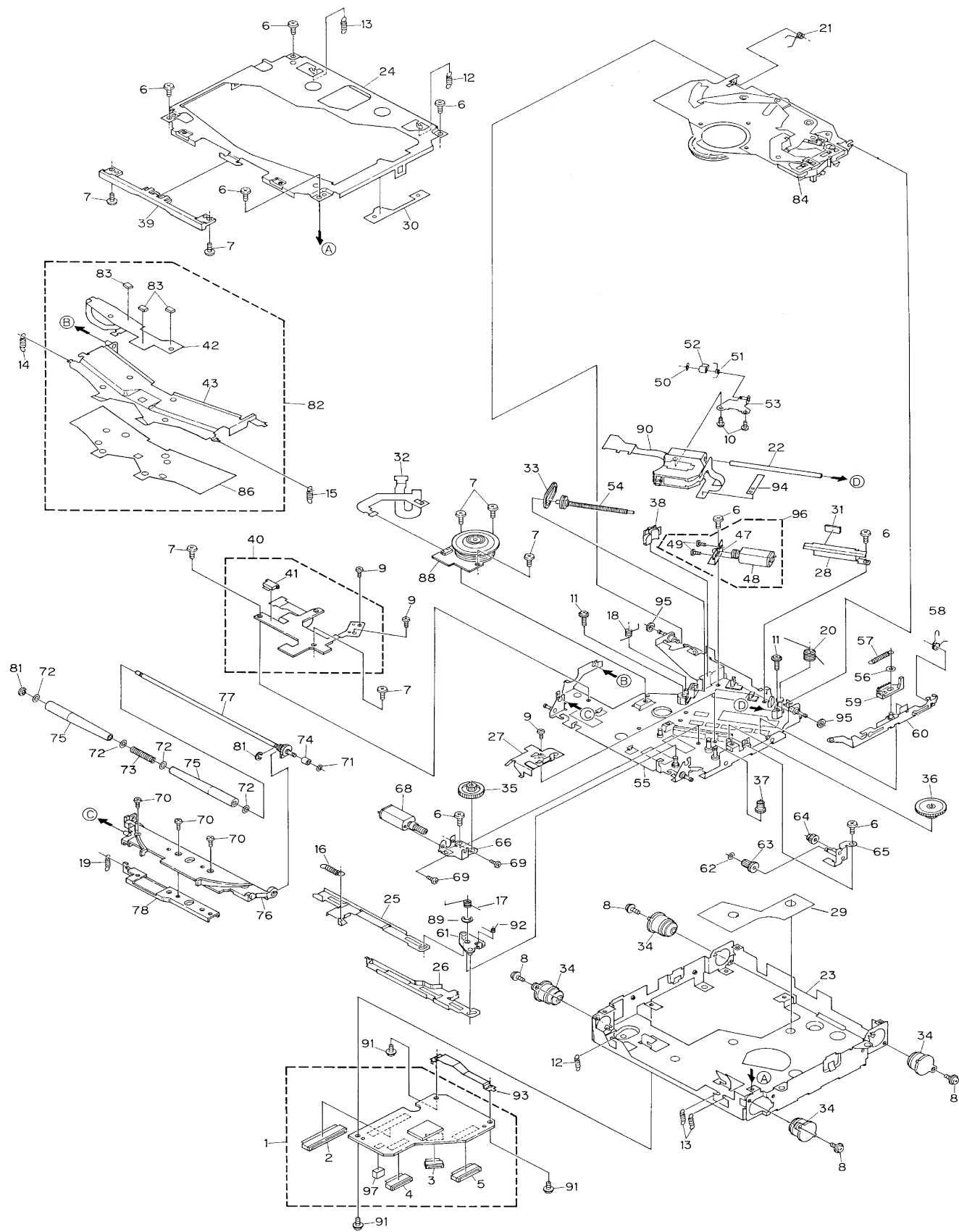
● DEH-P946/ES



● EXTERIOR (2) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	.....		11	Plug(CN1901)	CKS2496
2	Button(+,-)	CAC5486	12	Holder	CNC7547
3	Button(OPEN/EJECT)	CAC5488	13	Spacer	CNM5622
4	Button(S/A,CLOCK)	CAC5490	14	Spacer	CNM5623
5	Button(TRACK/SEEK)	CAC5494	15	Spacer	CNM5894
6	Button	CAC5498	16	Grille Unit	CXB2204
7	Button	CAC5499	17	Cover Unit	CXB2207
8	Button(SOURCE/OFF)	CAC5504	18	Screw	BPZ20P080FZK
9	Spacer	CNM5910	*	19 LCD(LCD1901)	CAW1471
10	Keyboard Unit	CWM5689		20 EL(EL1901)	CEL1580
			21	Spacer	CNM6021
			22	PCB	CNP5063

2.4 CD MECHANISM MODULE



● CD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Control Unit	CWX2166		51	Spring	CBH2039
	2	Connector(CN701)	CKS1968		52	Lack	CNV5471
	3	Connector(CN802)	CKS3477		53	Bracket Unit	CXB1674
	4	Connector(CN801)	CKS3481		54	Screw Unit	CXB1676
	5	Connector(CN101)	CKS3486		55	Chassis Unit	CXB3042
	6	Screw	BMZ20P025FMC		56	Washer	CBF1038
	7	Screw	CBA1037		57	Spring	CBH2035
	8	Screw	CBA1296		58	Spring	CBH2036
	9	Screw	CBA1340		59	Lever	CNV5078
	10	Screw	CBA1362		60	Lever Unit	CXB3207
	11	Screw	CBA1440		61	Arm Unit	CXB1680
	12	Spring	CBH2029		62	Washer	CBF1038
	13	Spring	CBH2030		63	Gear	CNV5083
	14	Spring	CBH2031		64	Gear	CNV5084
	15	Spring	CBH2032		65	Bracket Unit	CXB1682
	16	Spring	CBH2033		66	Bracket	CNC7292
	17	Spring	CBH2207		67	.....
	18	Spring	CBH2040		68	Motor Unit(M2)	CXB1684
	19	Spring	CBH2041		69	Screw	JFZ14P020FNI
	20	Spring	CBH2042		70	Screw	CBA1451
	21	Spring	CBH2052		71	Washer	CBF1037
	22	Shaft	CLA3232		72	Washer	CBF1060
	23	Frame	CNC7285		73	Spring	CBH2170
	24	Frame	CNC7286		74	Roller	CLA3222
	25	Lever	CNC7288		75	Roller	CNV3412
	26	Lever	CNC7289		76	Arm	CNV5075
	27	Cover	CNC7294		77	Gear Unit	CXB1686
	28	Cover	CNC7304		78	Bracket Unit	CXB2627
	29	Sheet	CNM5401		79	.....
	30	Sheet	CNM5402		80	.....
	31	Sheet	CNM5814		81	Washer	YE20FUC
	32	PCB	CNP4854		82	Guide Arm Assy	CXB1688
	33	Belt	CNT1082		83	Photo-transistor(P1-3)	CPT-230S-X
	34	Damper	CNV4984		84	Clamp Arm Assy	CXB3137
	35	Gear	CNV5080		85	.....
	36	Gear	CNV5081	*	86	Sheet	CNM5398
	37	Gear	CNV5082		87	.....
	38	Holder	CNV5098		88	Motor(M3)	CXM1129
	39	Guide	CNV5352		89	Washer	YE25FUC
	40	Mechanism FPC Unit	CWX2191		90	Pickup Unit(Service)(P8)	CXX1290
	41	Connector	CKS3767		91	Screw	IMS20P035FMC
*	42	PCB	CNP4852		92	Spring	CBH2206
*	43	Arm	CNC7287		93	Bracket	CNC7977
	44	.....			94	Sheet	CNM6039
	45	.....			95	Sheet	CNM6055
	46	.....			96	CRG Motor Assy(M1)	CXB1670
	47	Bracket	CNC7300		97	Connector(CN702)	CKS2191
	48	Motor Unit	CXB1671				
	49	Screw	JFZ14P020FNI				
	50	Washer	CBF1037				

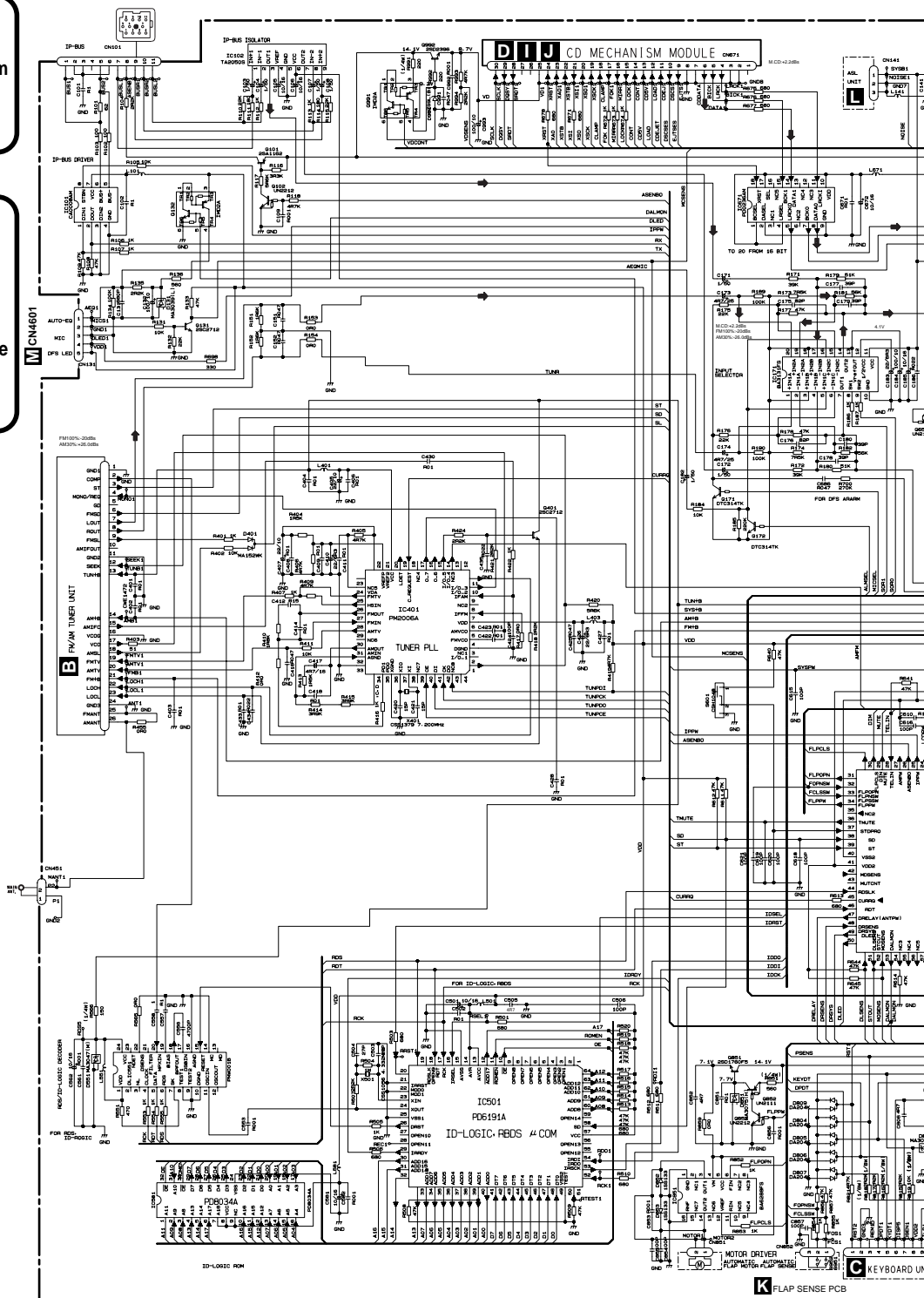
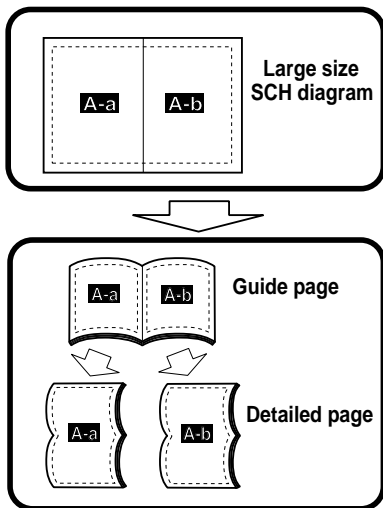
3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to “EXPLODED VIEWS AND PARTS LIST” or “ELECTRICAL PARTS LIST”.

● DEX-P1R/UC

A-a

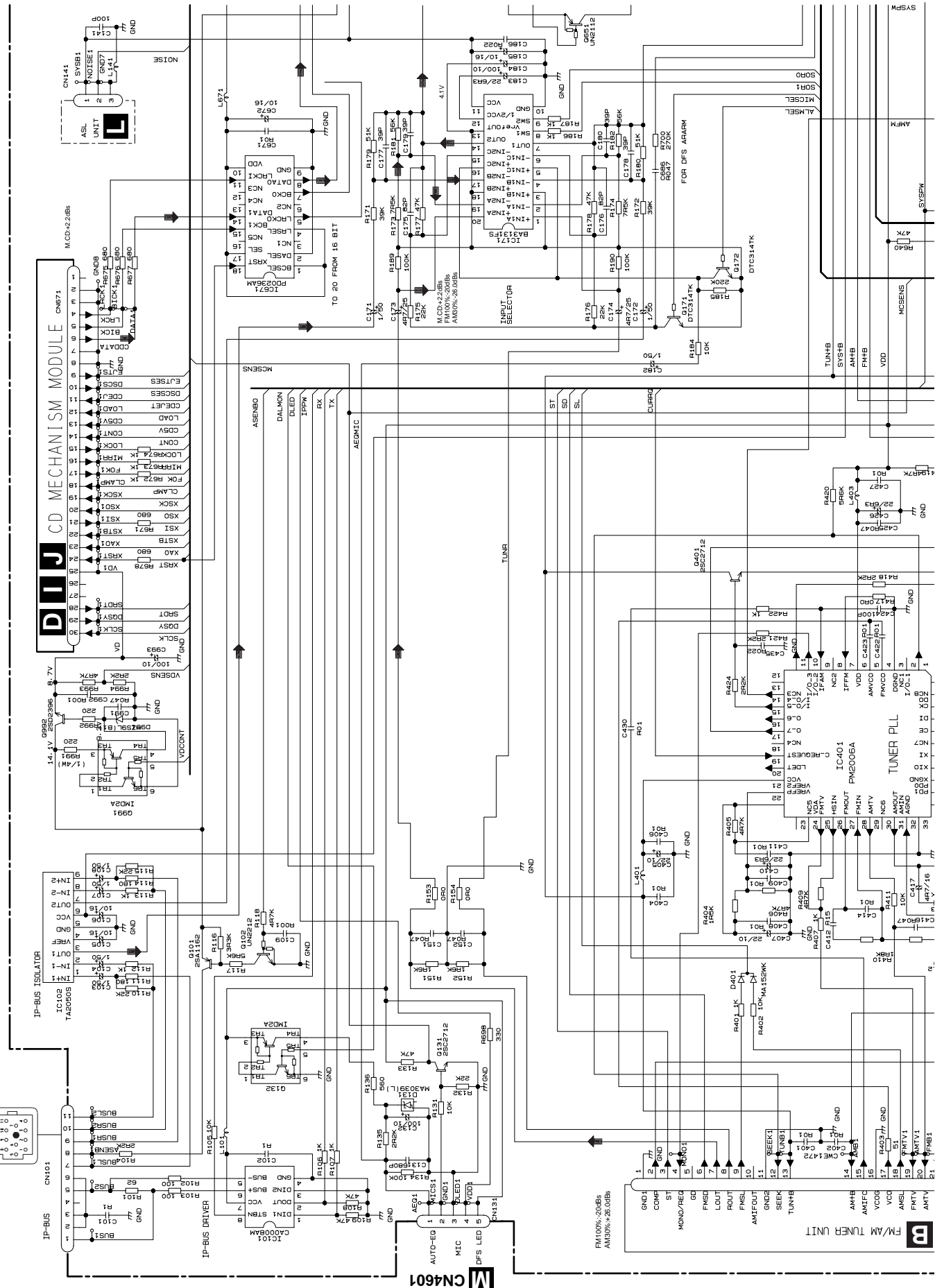


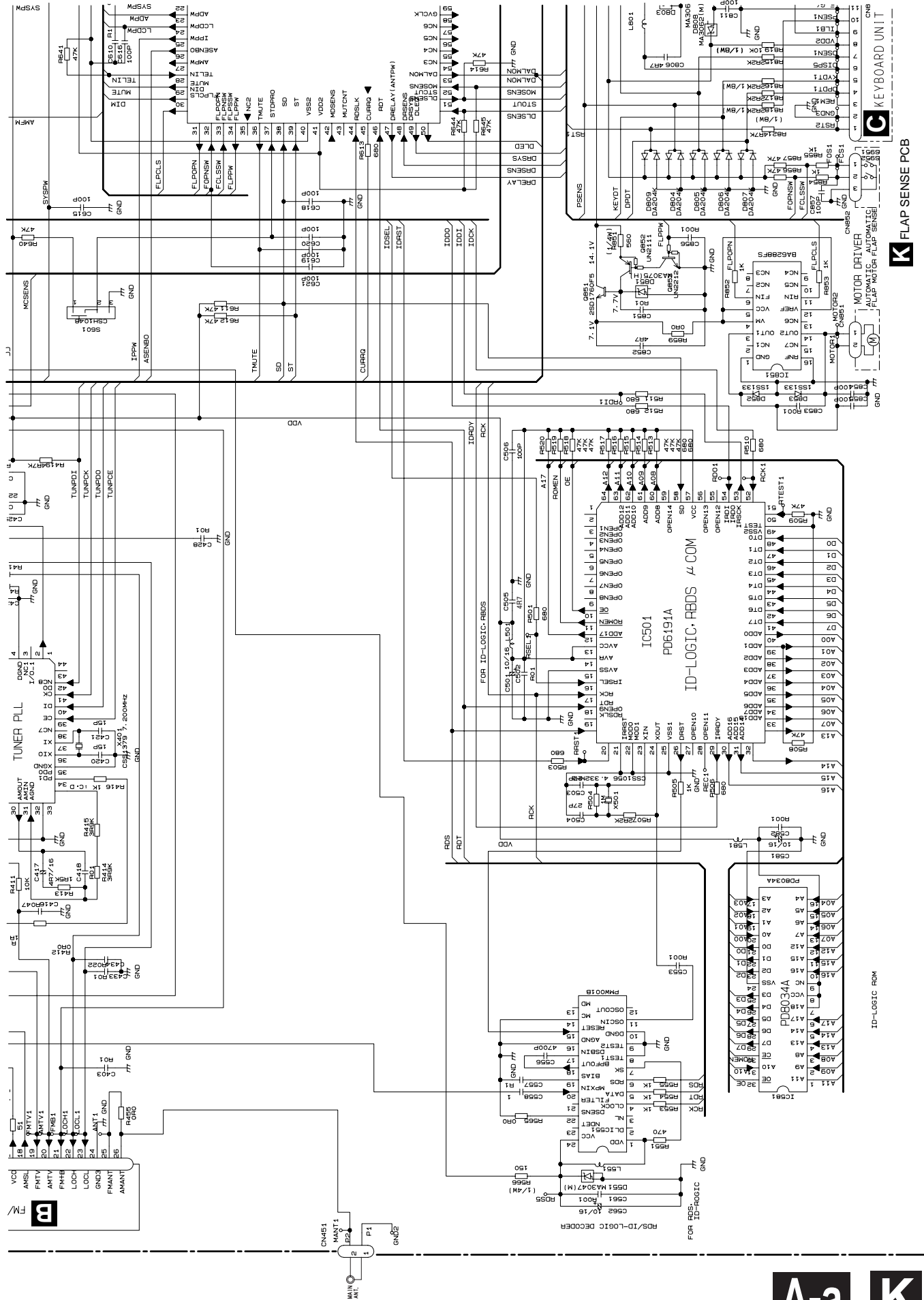
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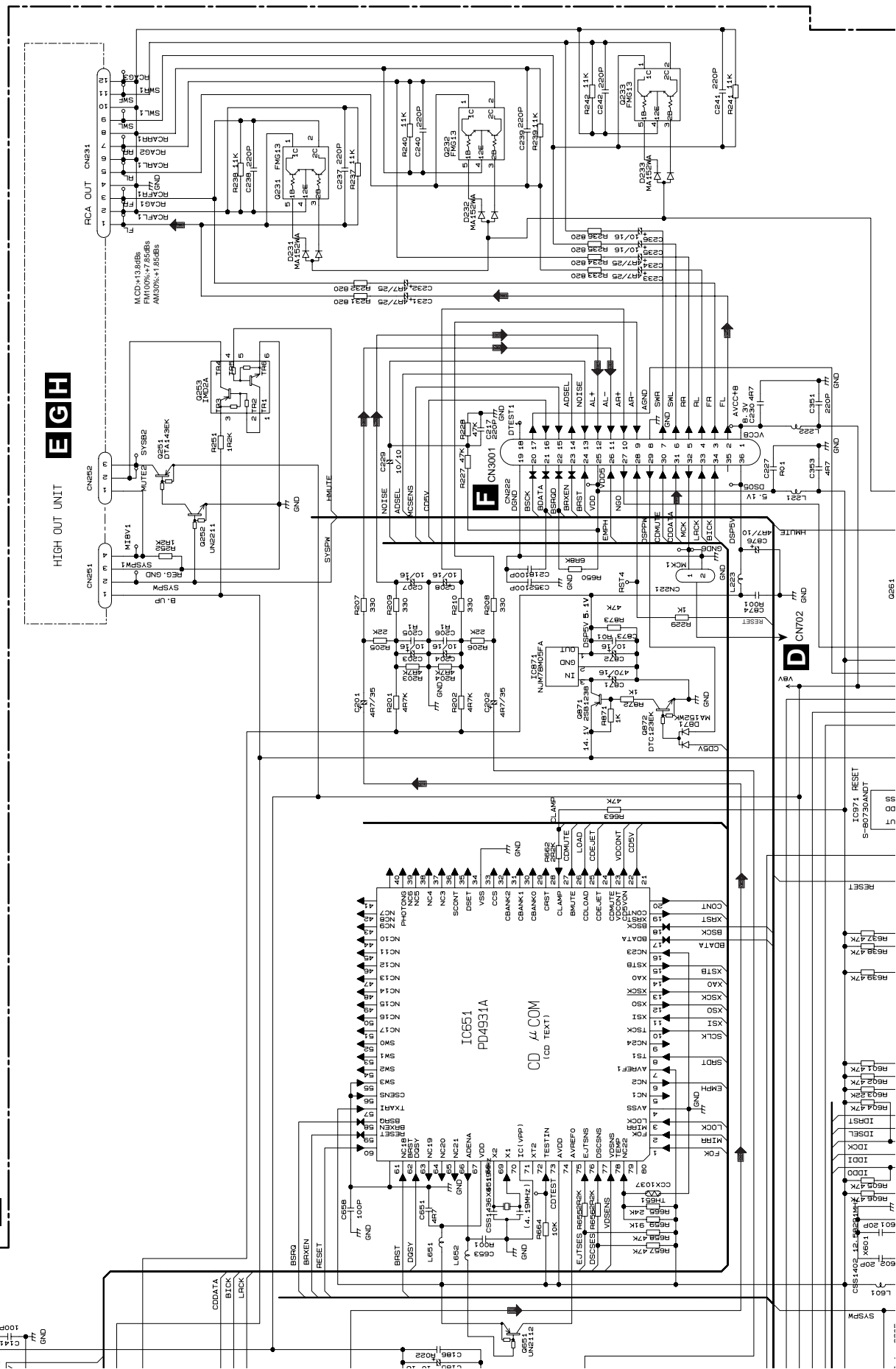
D

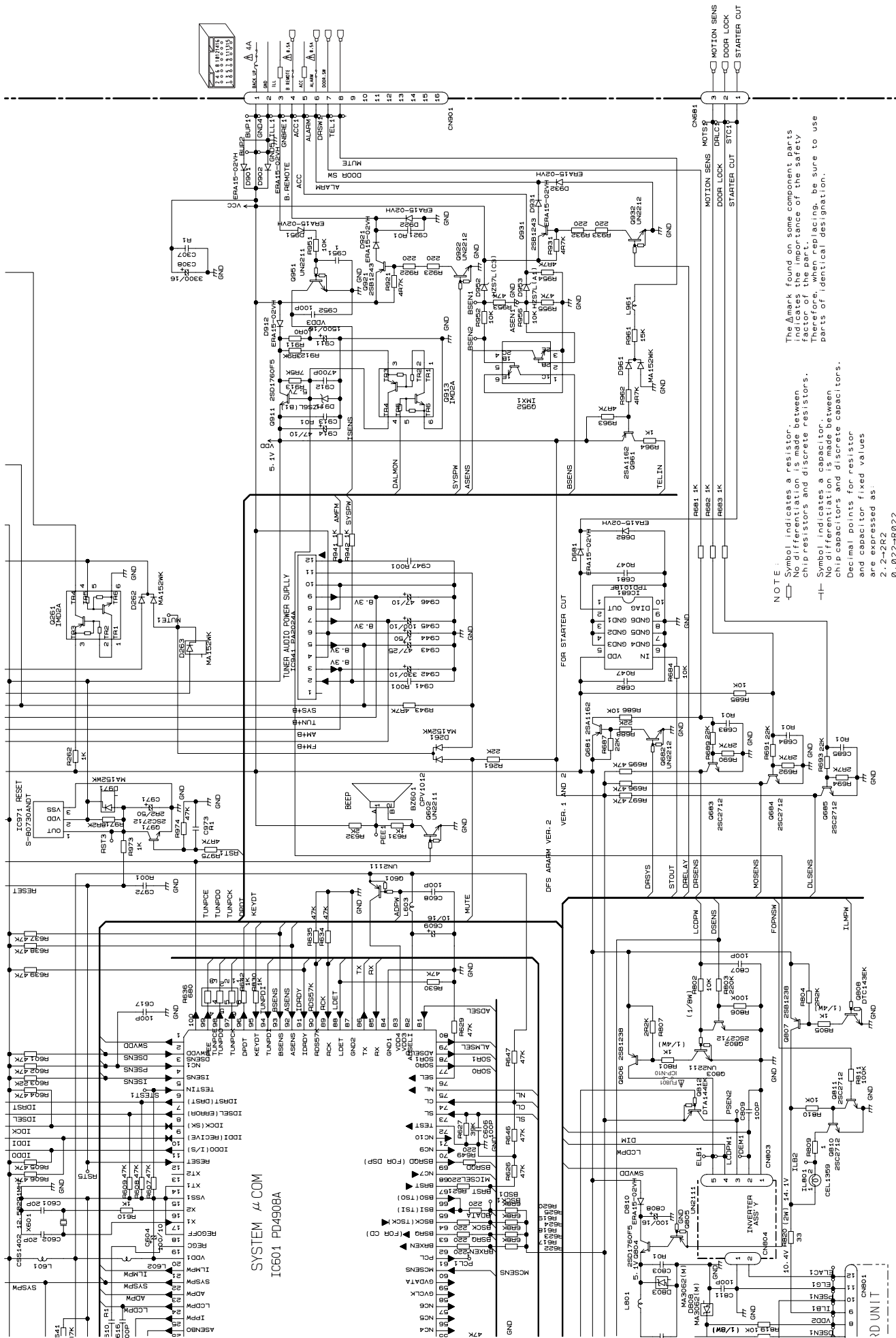
A-a A-b





21





NOTE

- Symbol indicates a resistor.
- No differentiation is made between chip resistors and discrete resistors. Therefore, when replacing, be sure to use parts of identical designation.
- Symbol indicates a capacitor.
- No differentiation is made between chip capacitors and discrete capacitors. Decimal points for resistor and capacitor fixed values are expressed as:
2.2-2R2
0.022-R022

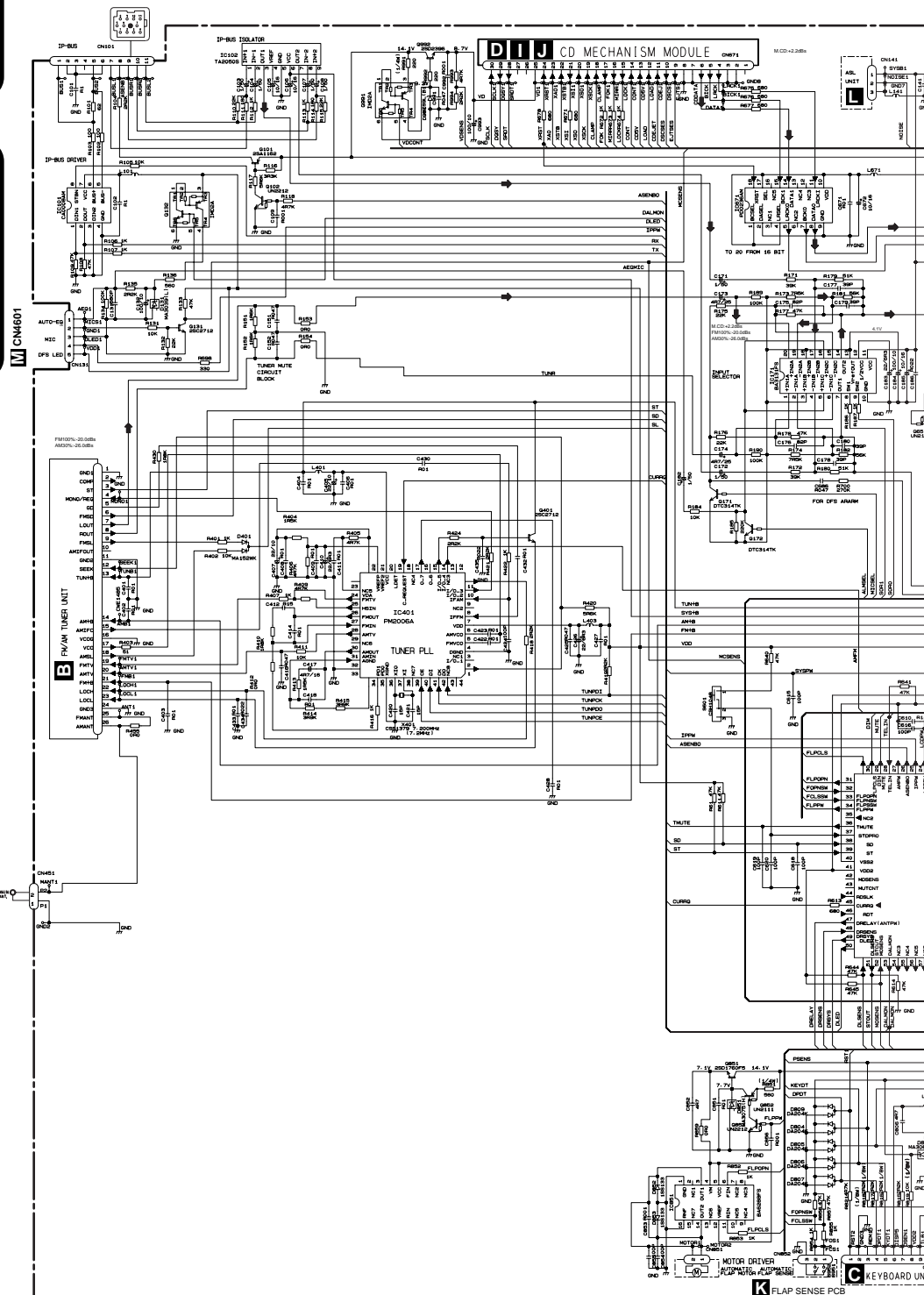
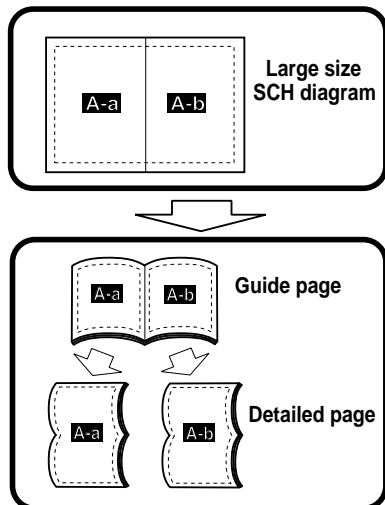
A-a A-b

A-b

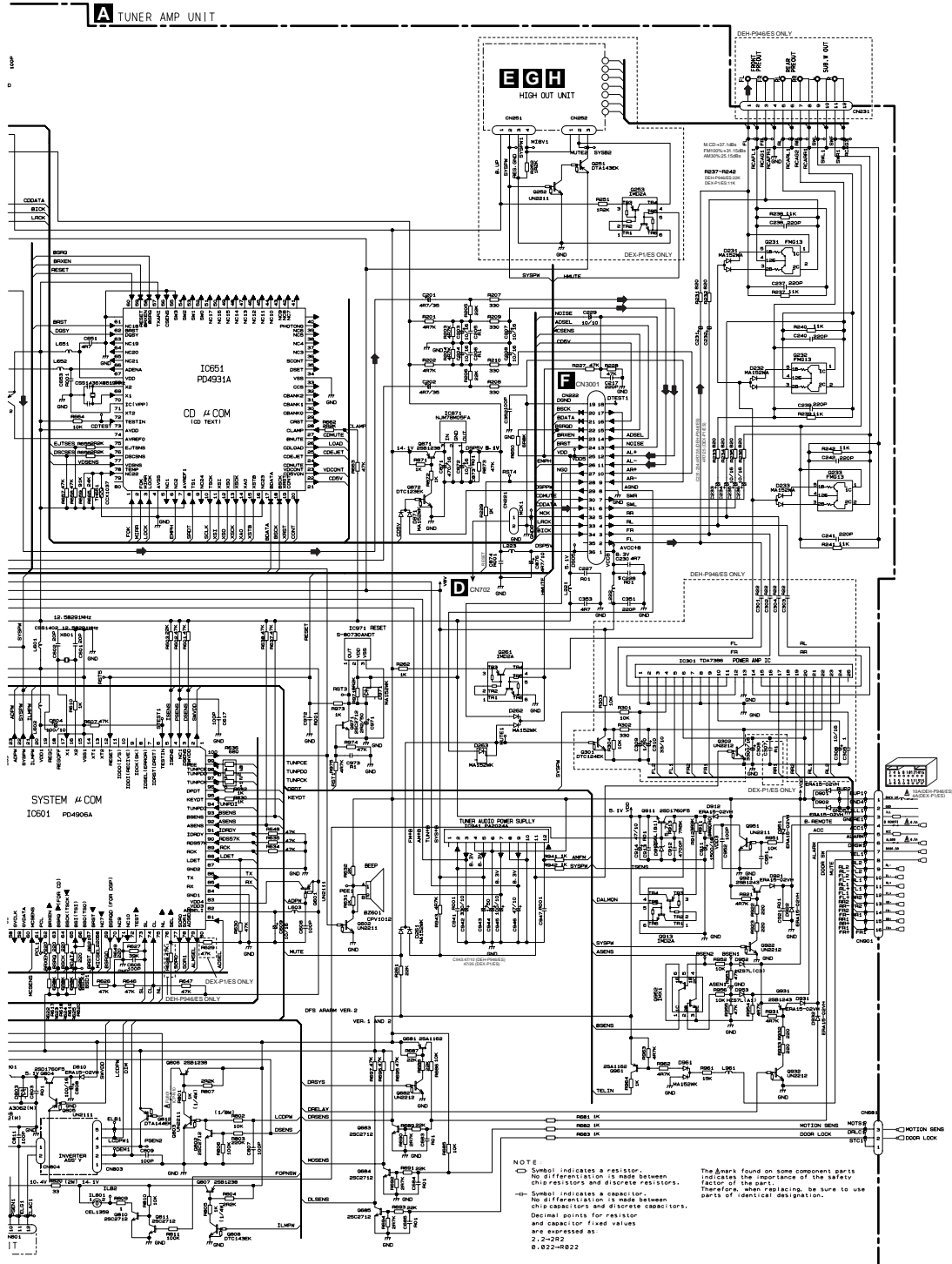
3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

● DEH-P946/ES, DEX-P1/ES

A-a



A-b

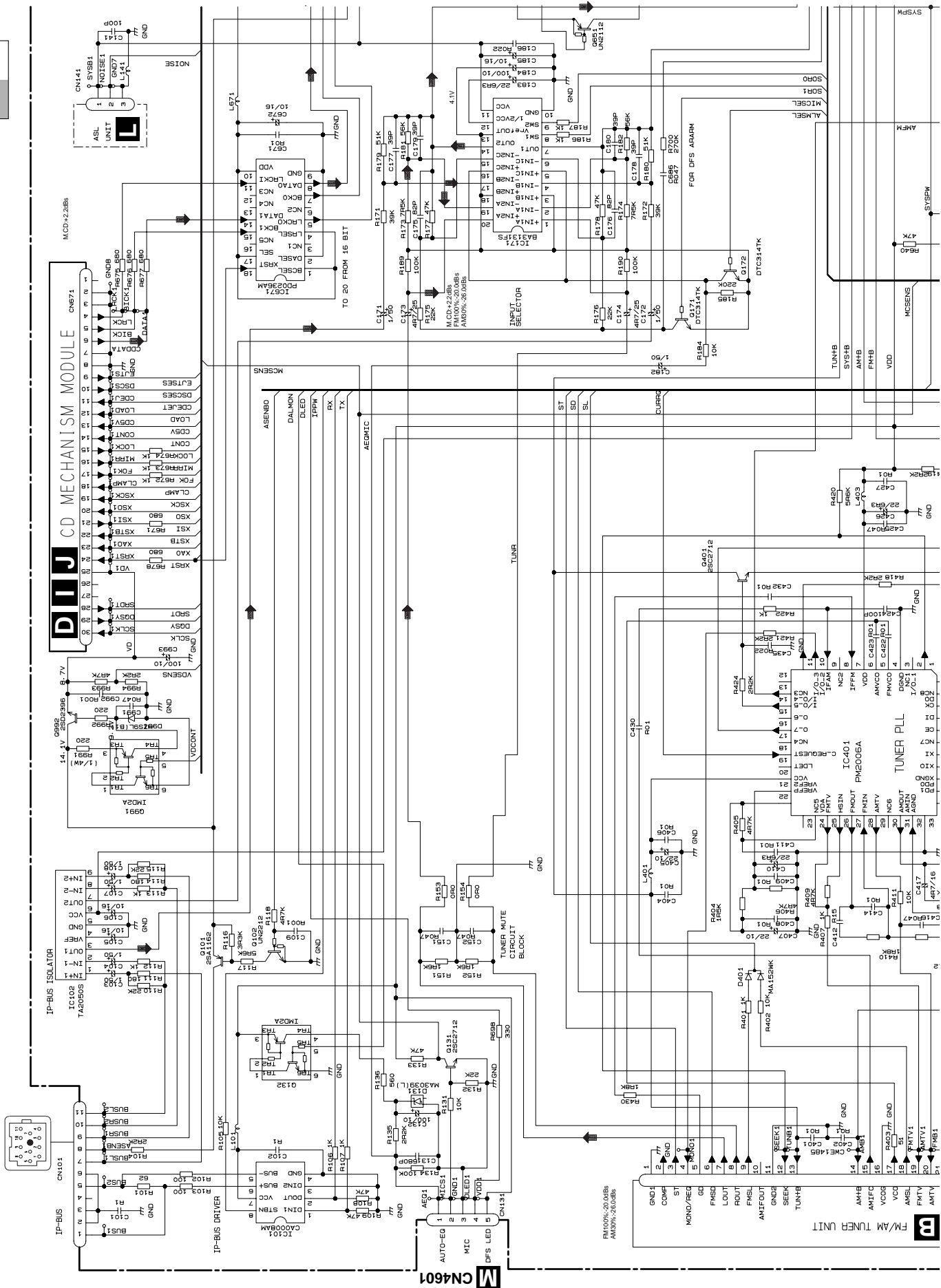


A

B

C

D



B

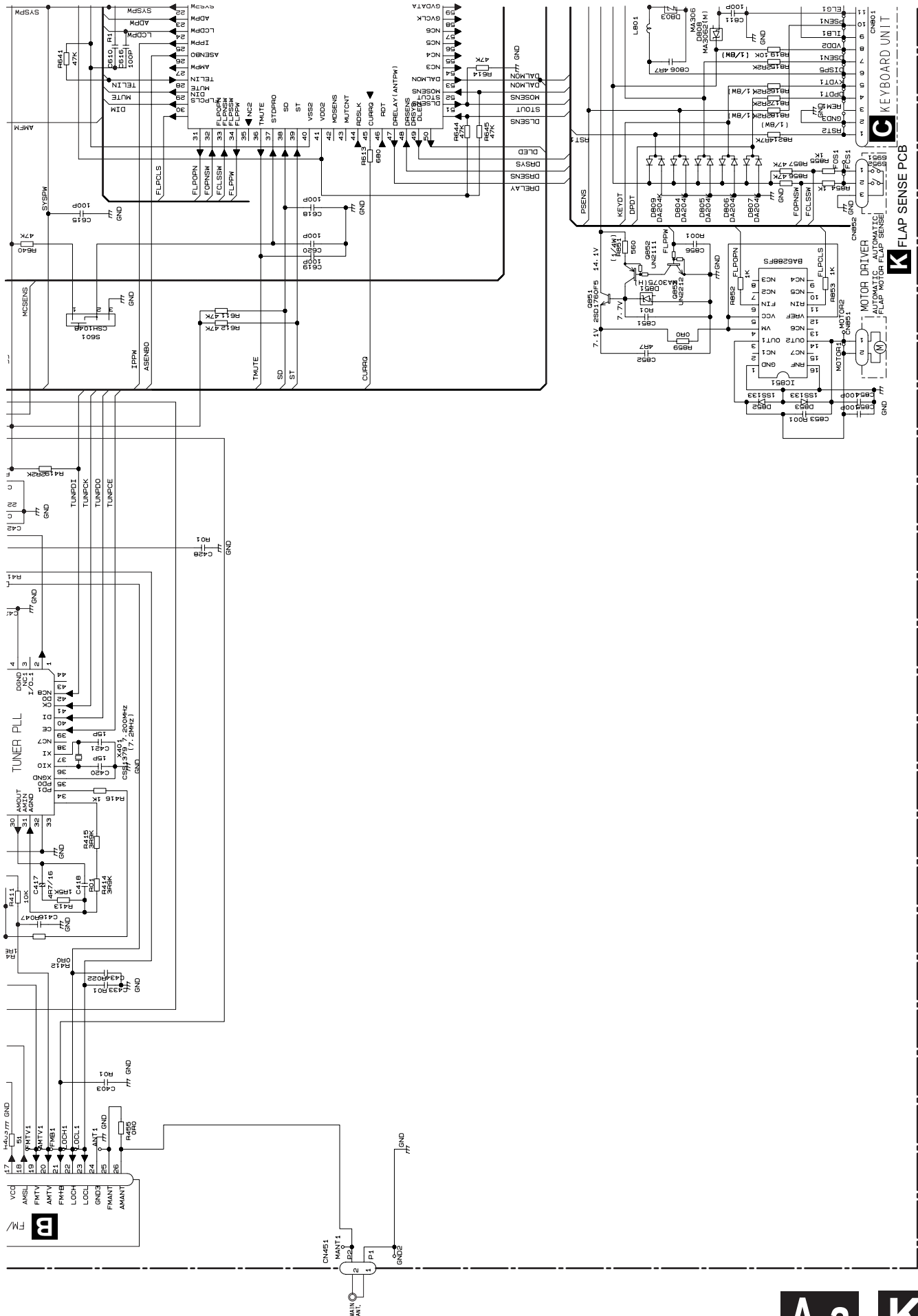
M

1

2

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4



A-a A-b

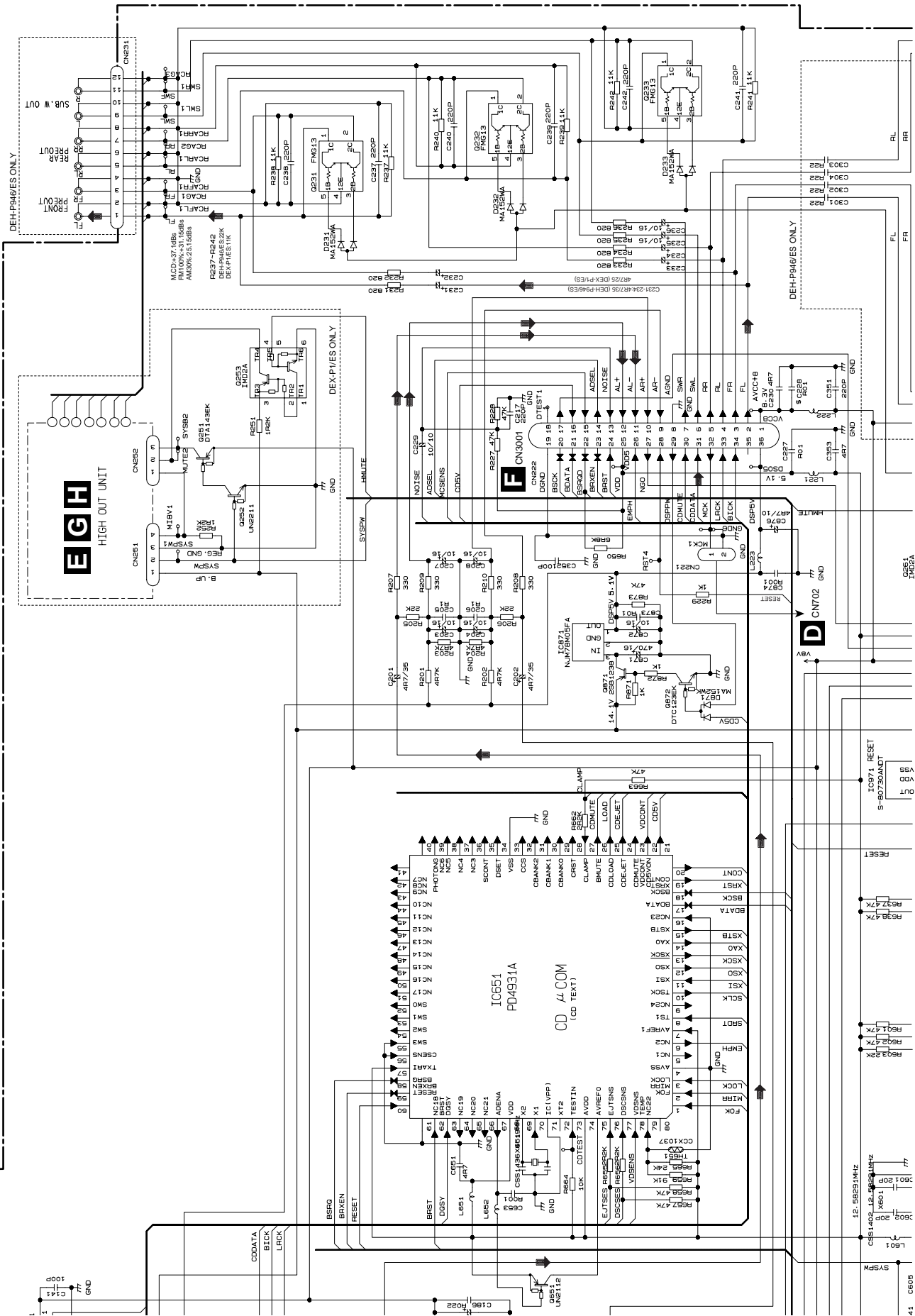
A

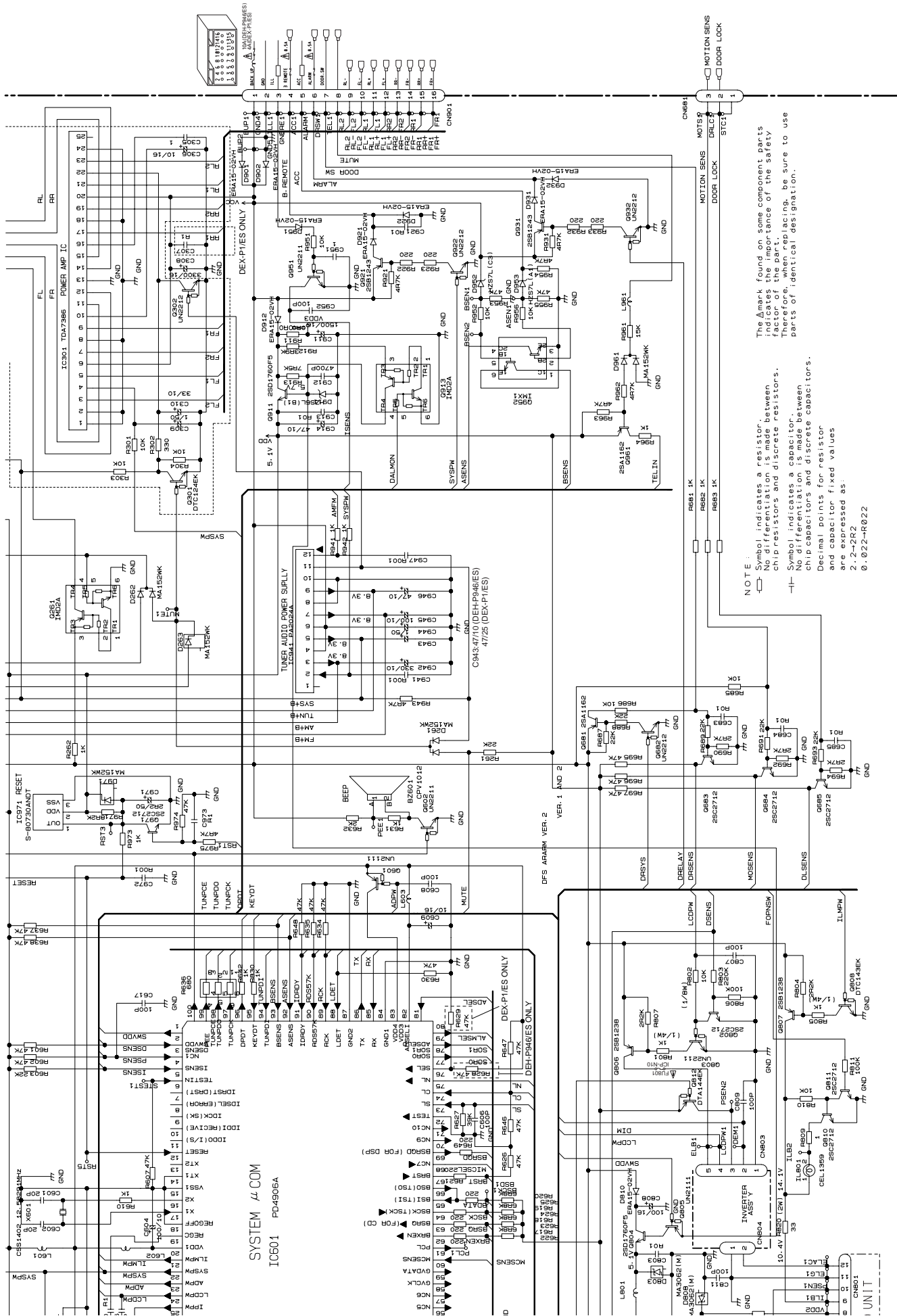
B

C

D

A-a K





A-a A-b

A

B

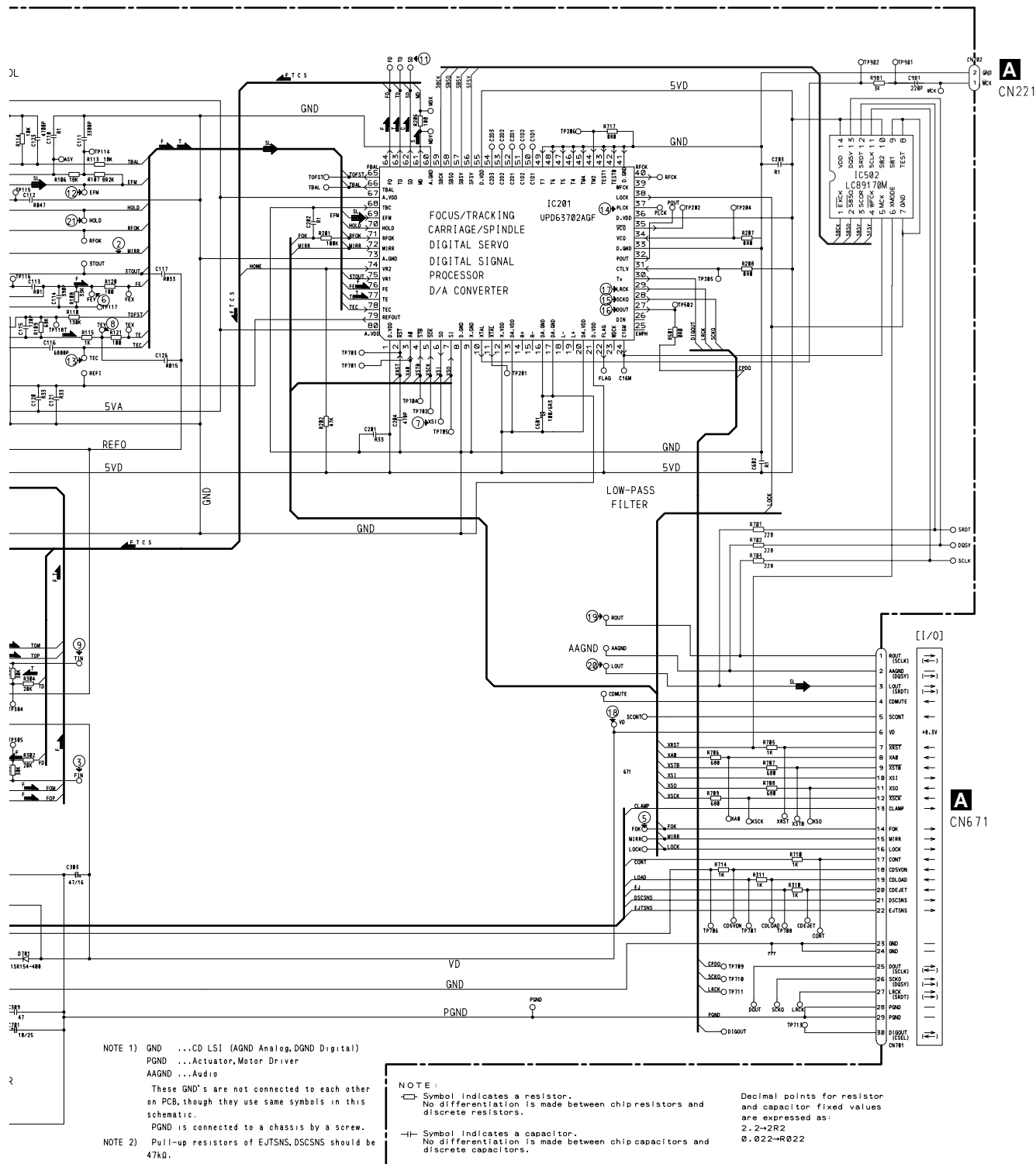
C

D

A-b

B2

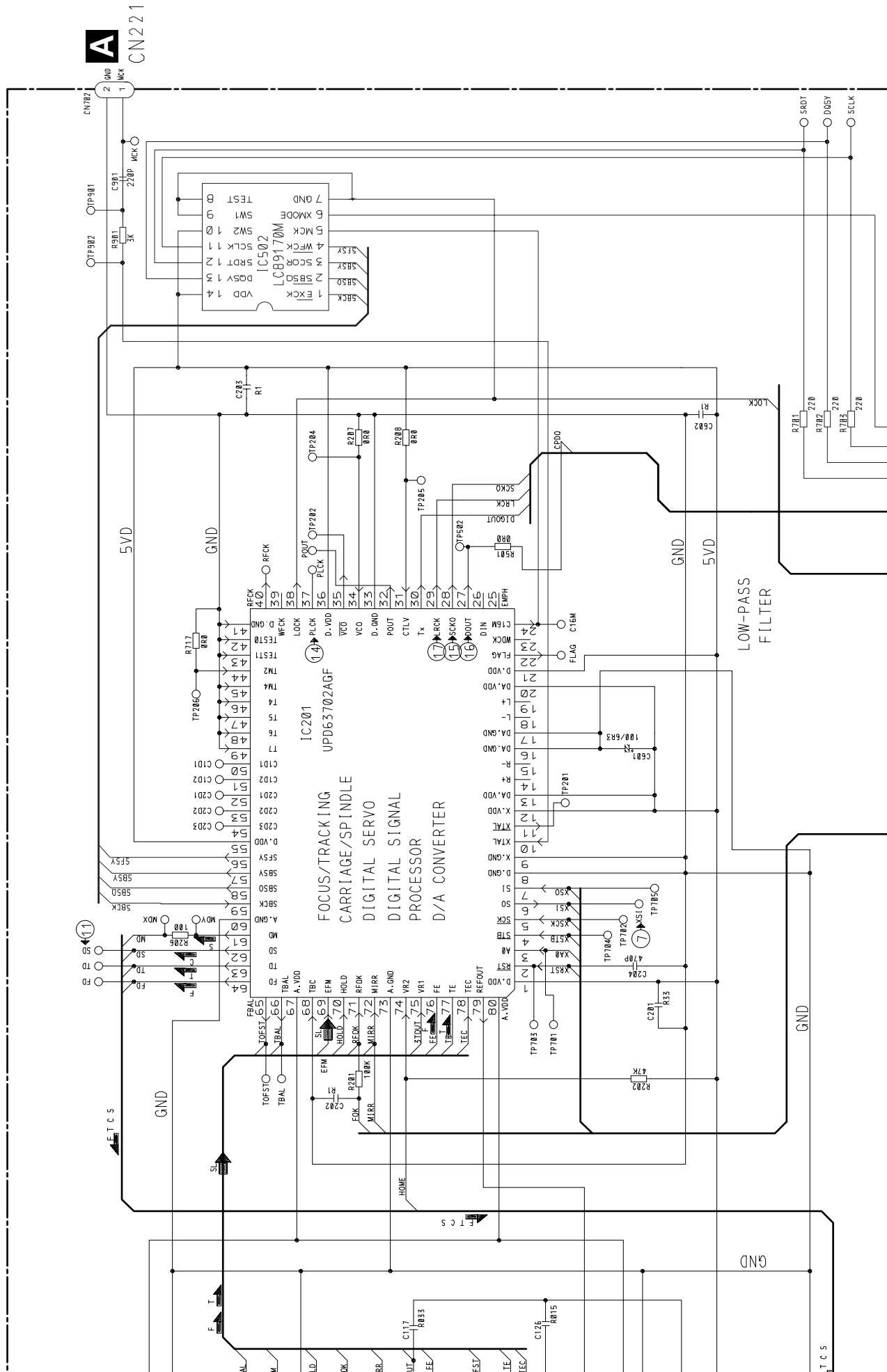
D-b

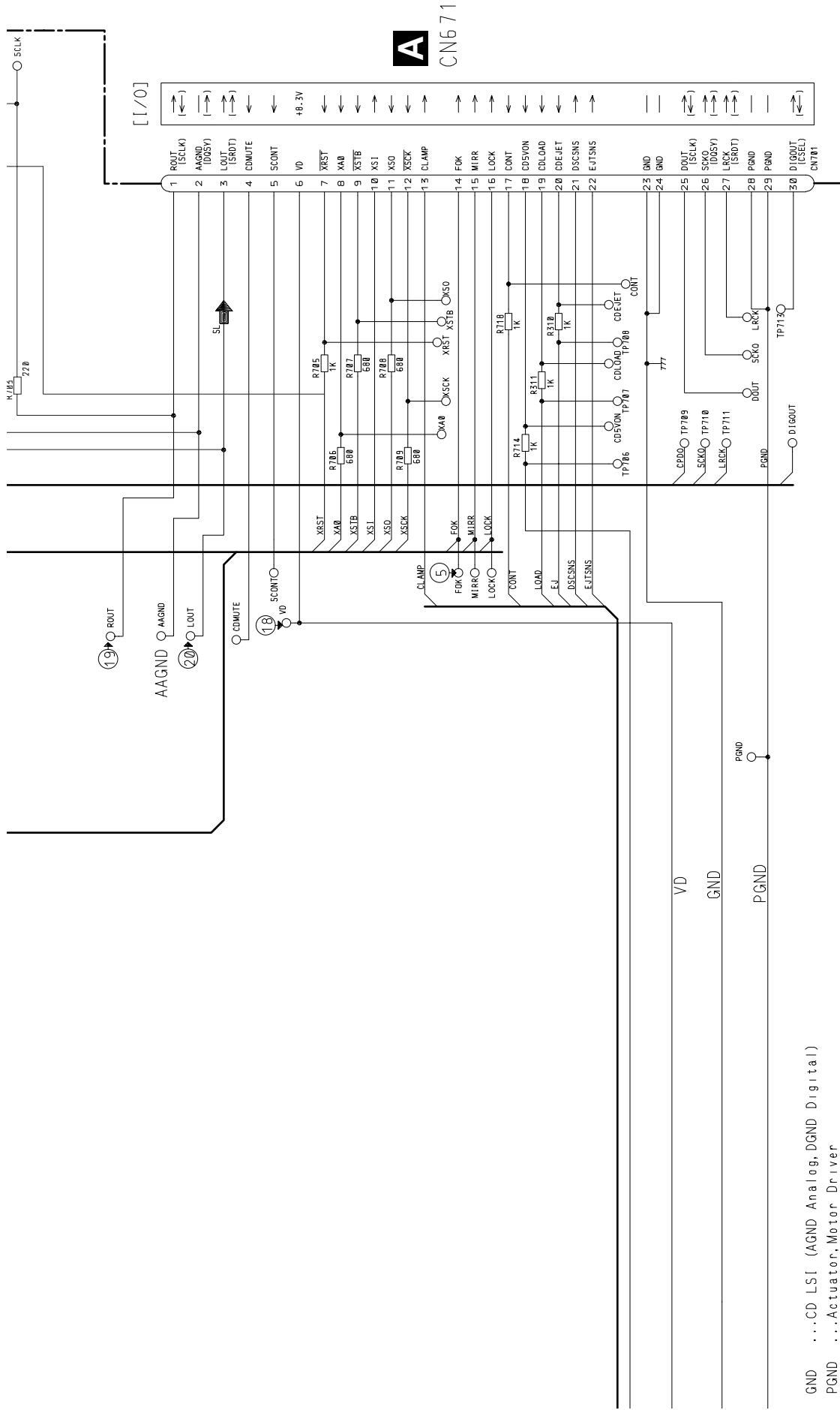


D



33





```
GND    ...CD LSI (AGND Analog, DGND Digital)
PGND   ...Actuator, Motor Driver
AAGND  ...Audio
```

These GND's are not connected to each other on PCB, though they use same symbols in this schematic.

PGND is connected to a chassis by a screw.

Pull-up resistors of EJTSNS, DSCSNS should be 47k Ω .

NOTES

Symbol indicates a resistor.
No differentiation is made b
discrete resistors.

—||— Symbol indicates a capacitor.

Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:

2.2→2R2
0.022→R022

D-a D-b

A

B

C

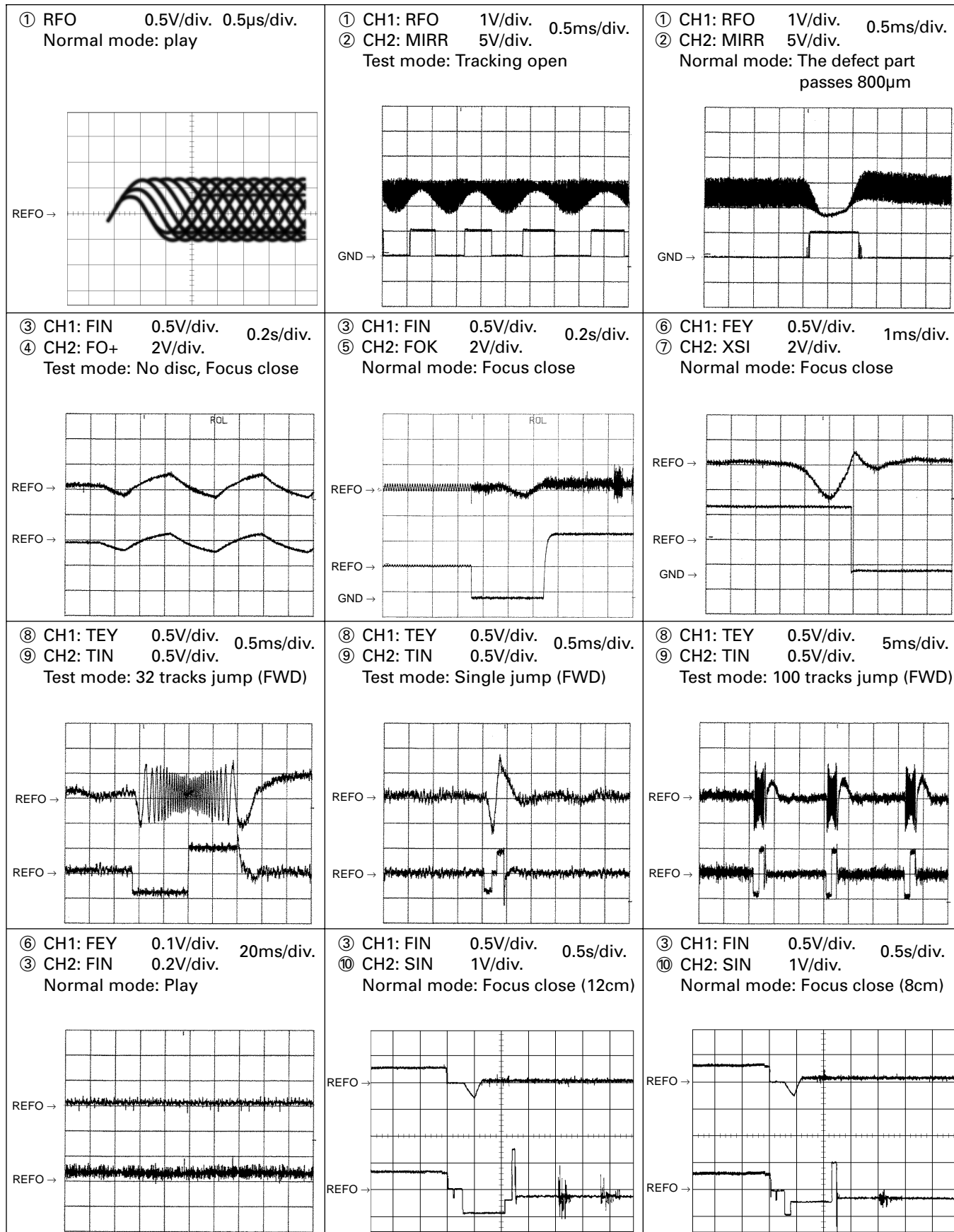
D

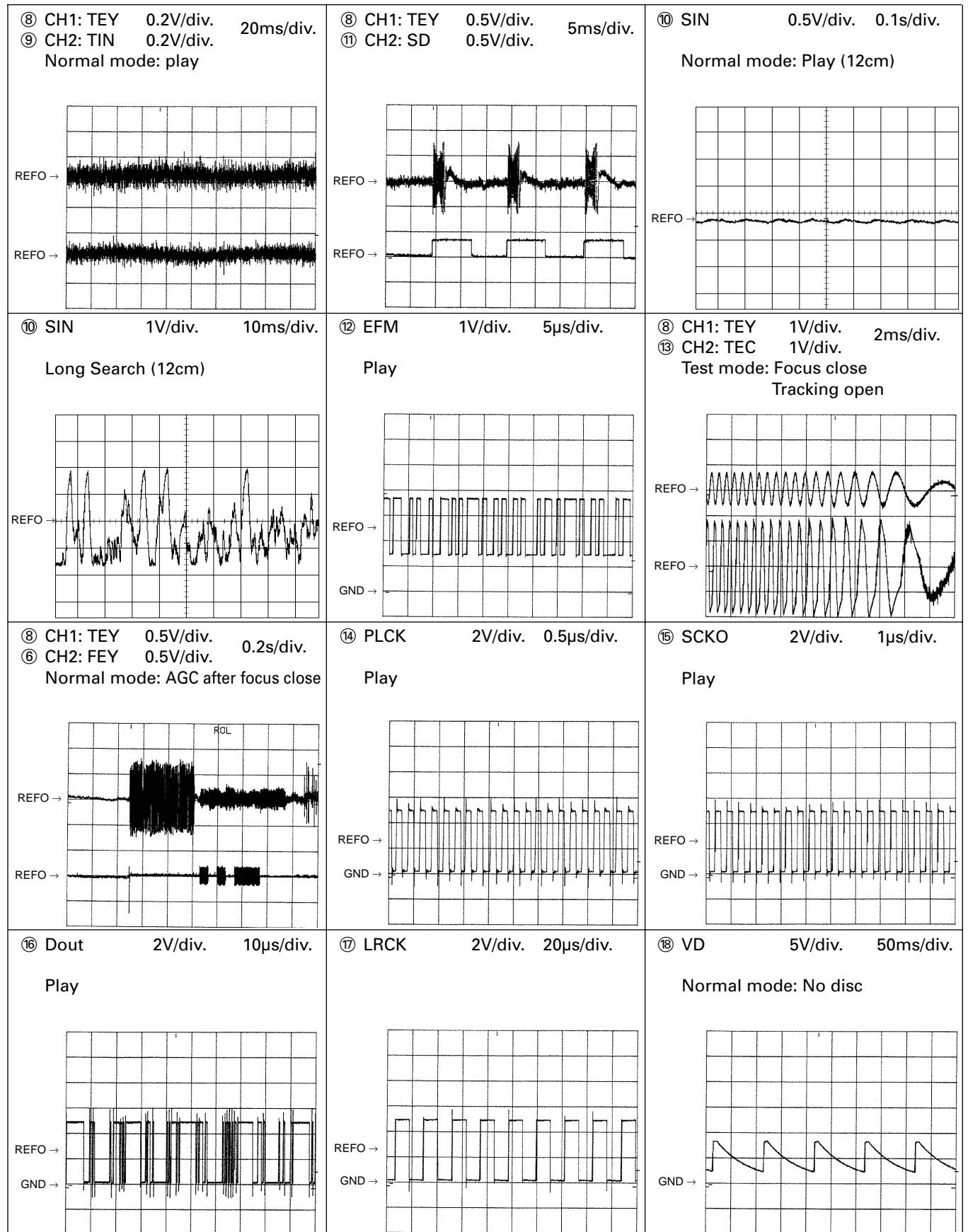
Note:1. The encircled numbers denote measuring pointes in the circuit diagram.

2. Reference voltage

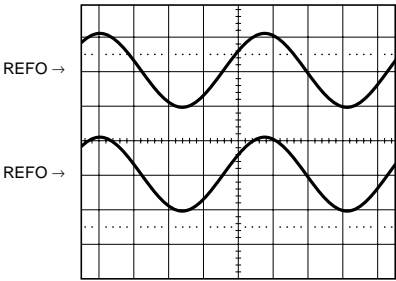
REFO:2.5V

● Waveforms

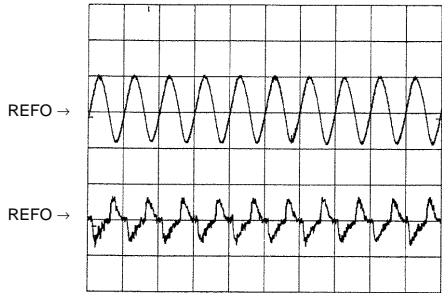




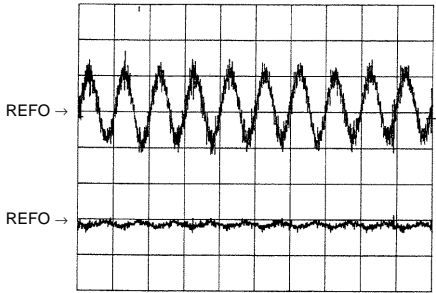
⑮ CH1: R OUT 1V/div. 0.2ms/div.
⑯ CH2: L OUT 1V/div. 0.2ms/div.
Normal mode: Play (1kHz 0dB)



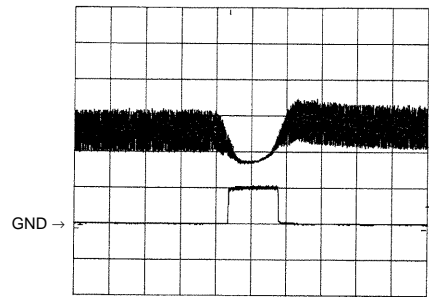
⑥ CH1: FEY 0.2V/div. 1ms/div.
③ CH2: FIN 0.5V/div. 1ms/div.
Normal mode: During AGC



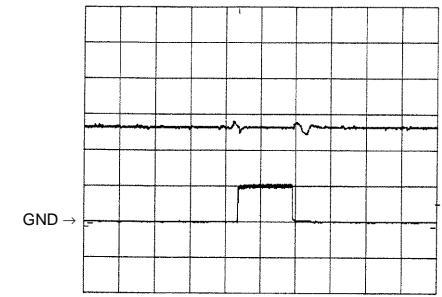
⑧ CH1: TEY 0.2V/div. 1ms/div.
⑨ CH2: TIN 0.5V/div. 1ms/div.
Normal mode: During AGC



① CH1: RFO 1V/div. 0.5ms/div.
② CH2: HOLD 5V/div. 0.5ms/div.
Normal mode: The defect part passes 800μm



③ CH1: FIN 1V/div. 0.5ms/div.
② CH2: HOLD 5V/div. 0.5ms/div.
Normal mode: The defect part passes 800μm

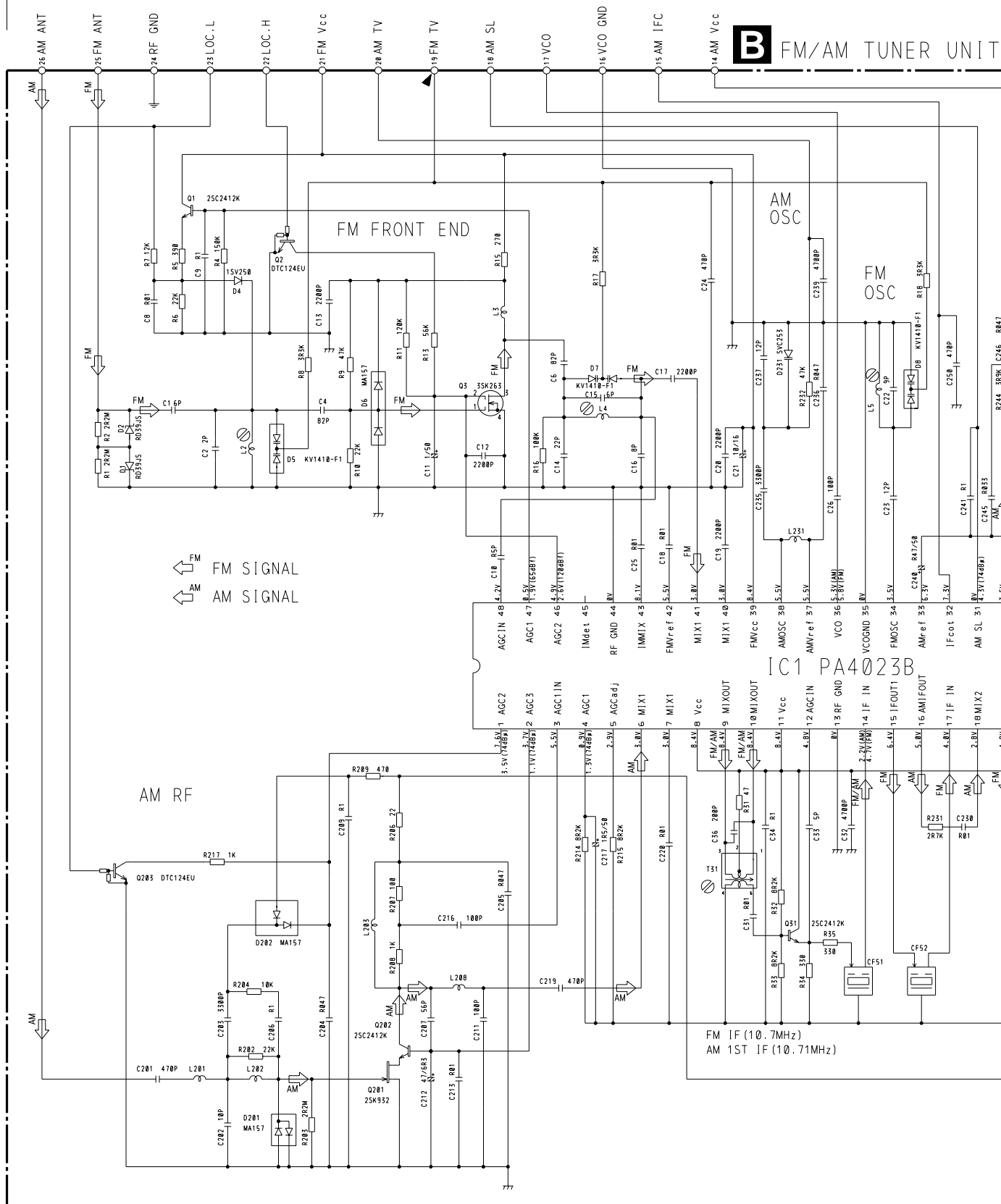


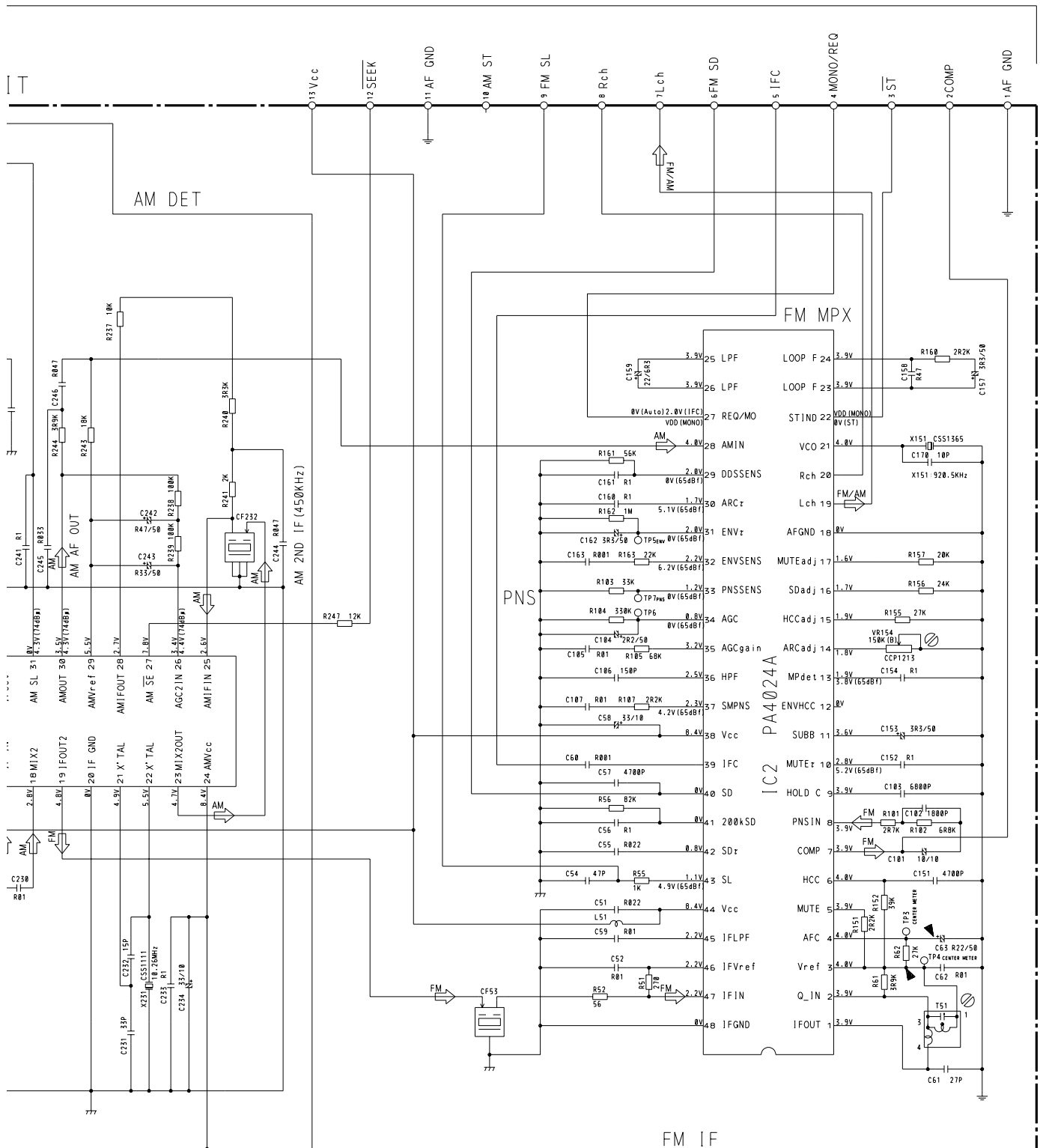
3.3 FM/AM TUNER UNIT

● DEX-P1R/UC

A

B FM/AM TUNER UNIT



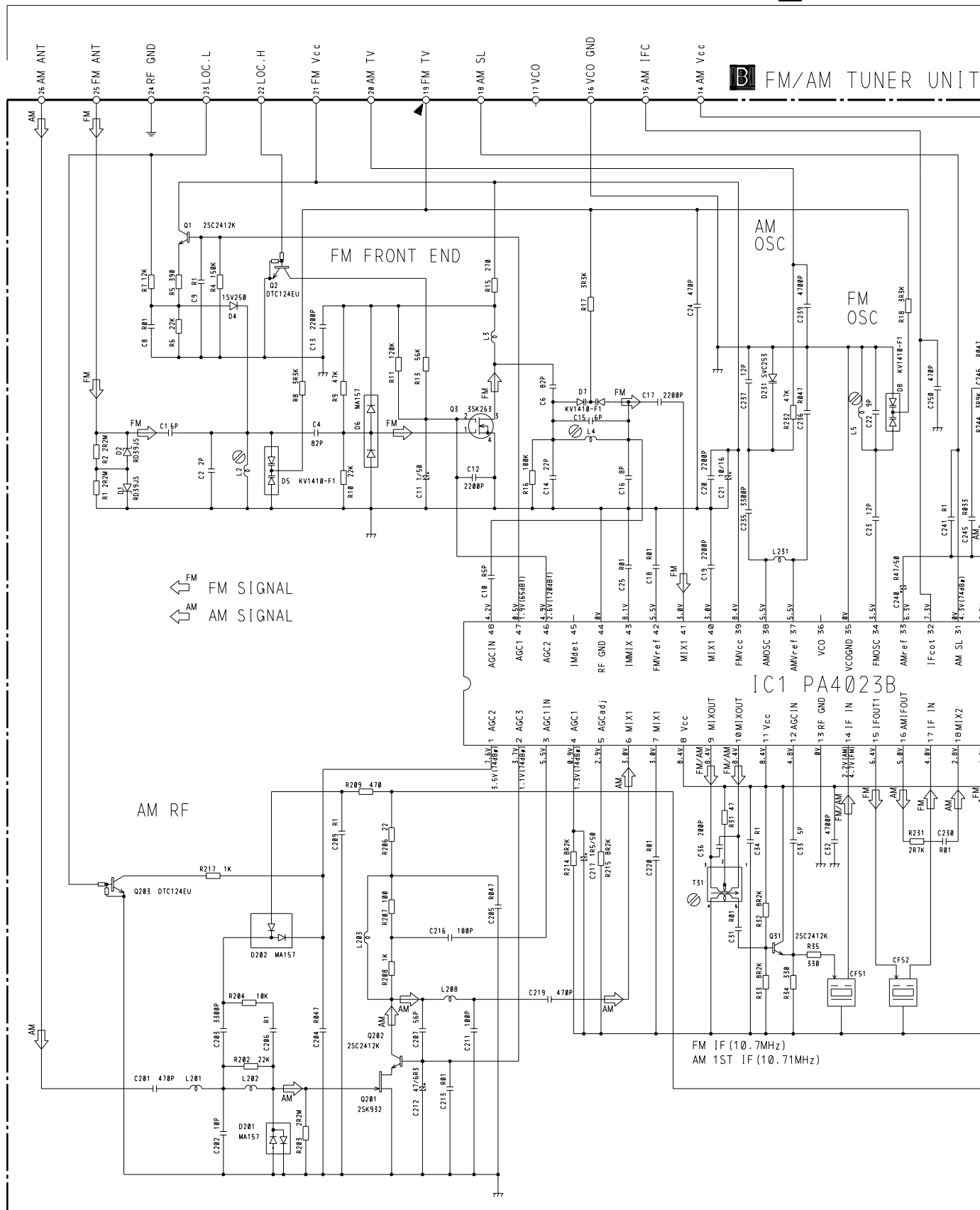


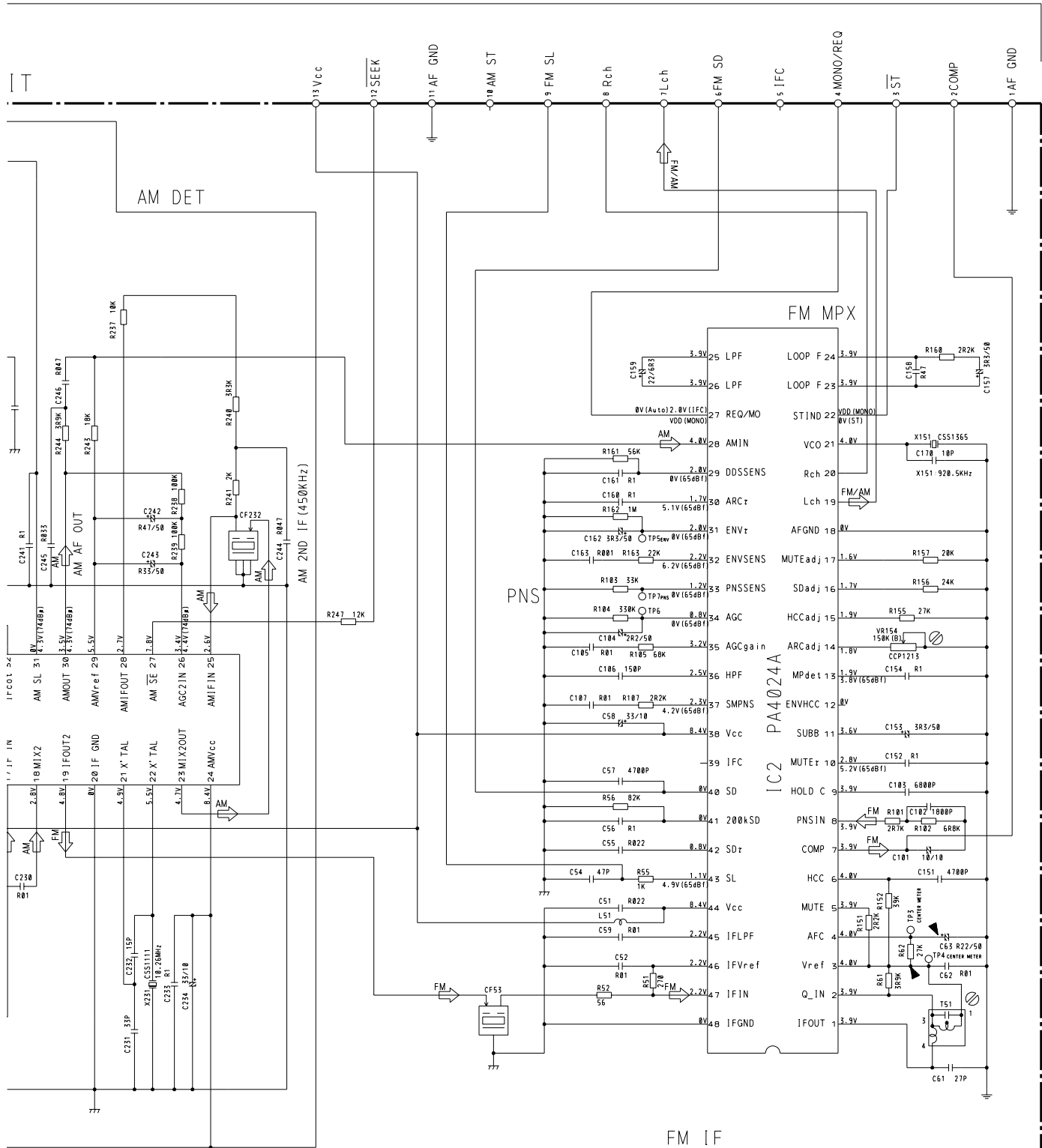
3.4 FM/AM TUNER UNIT

● DEH-P946/ES, DEX-P1/ES

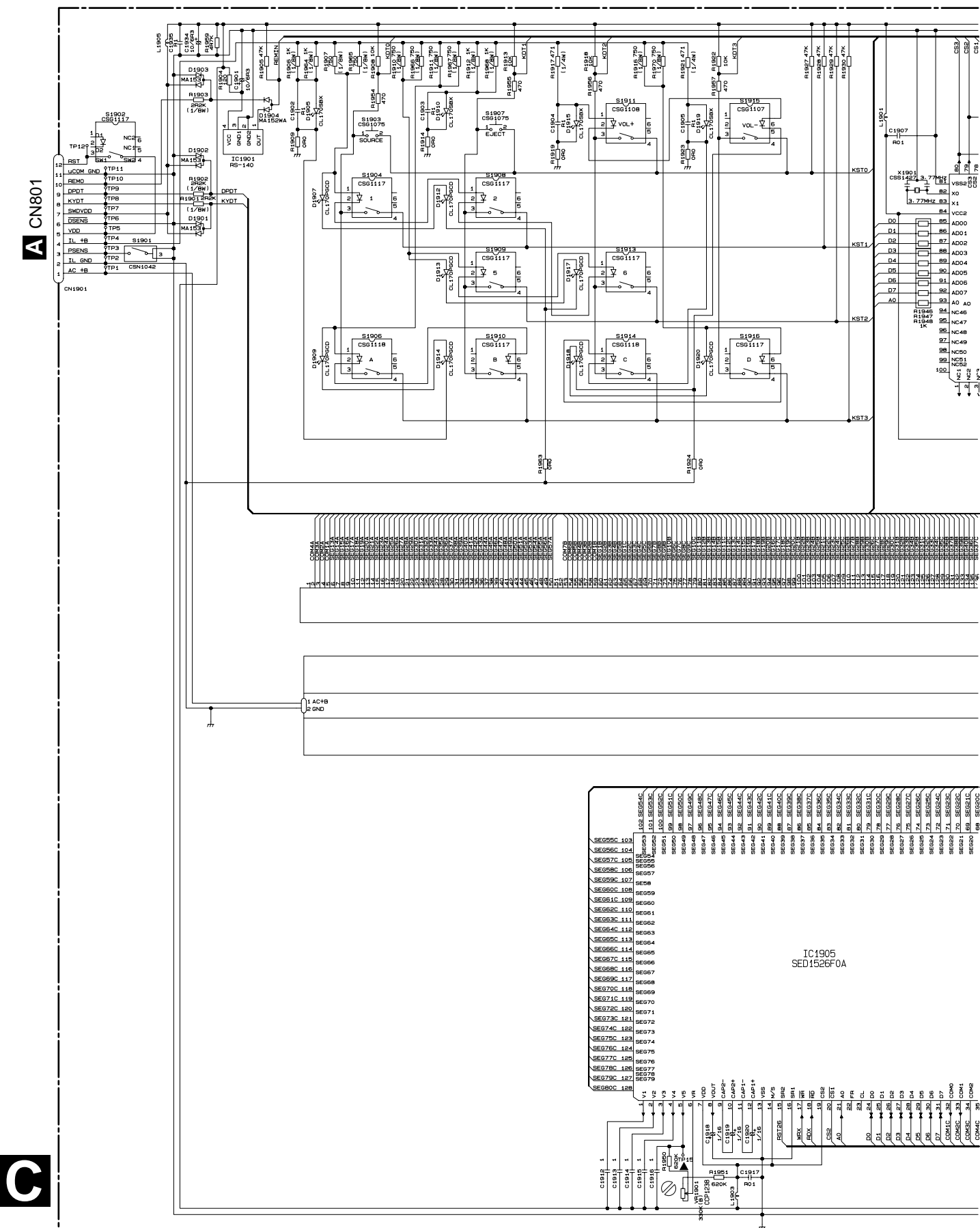
A

B FM/AM TUNER UNIT

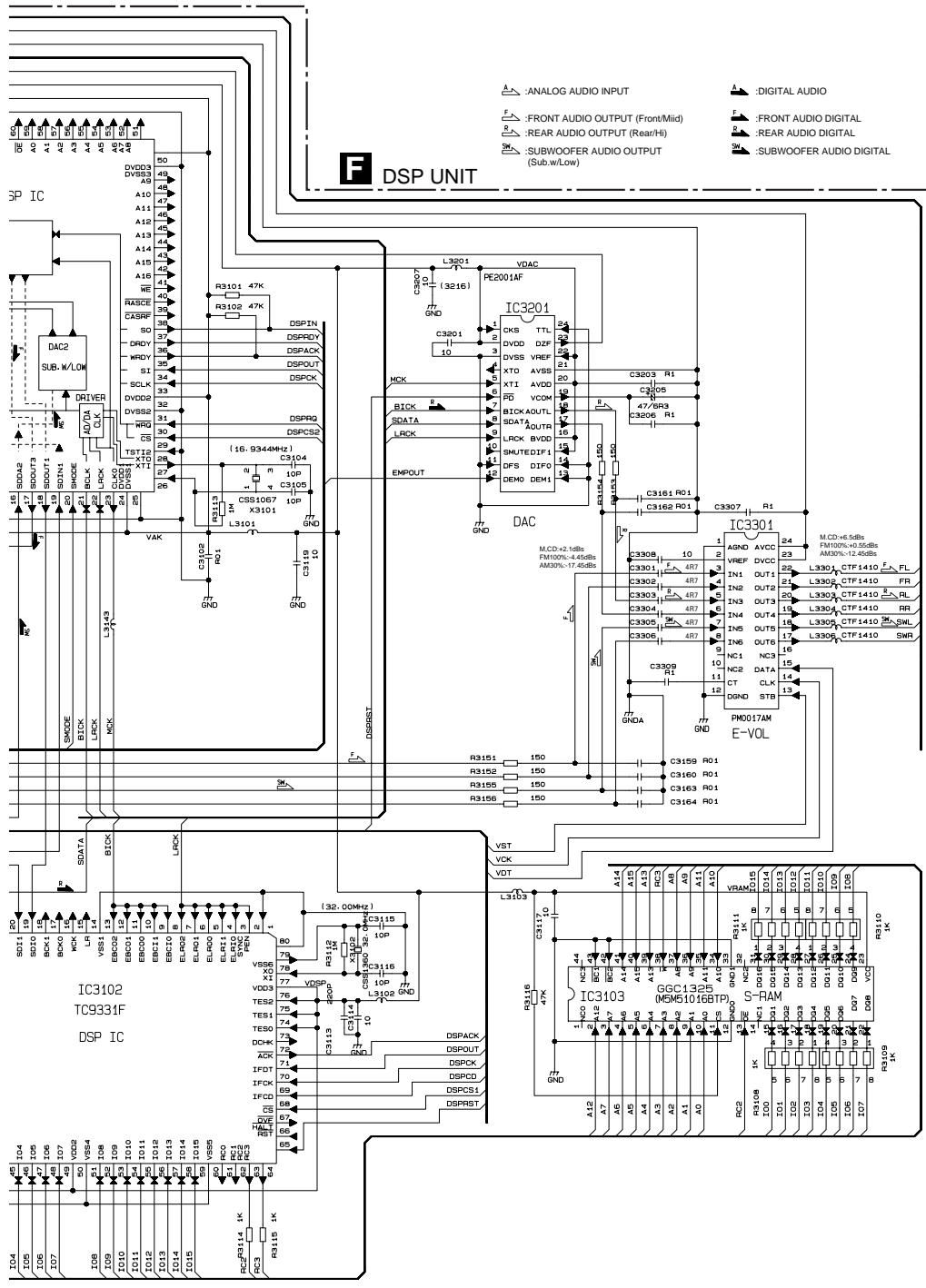


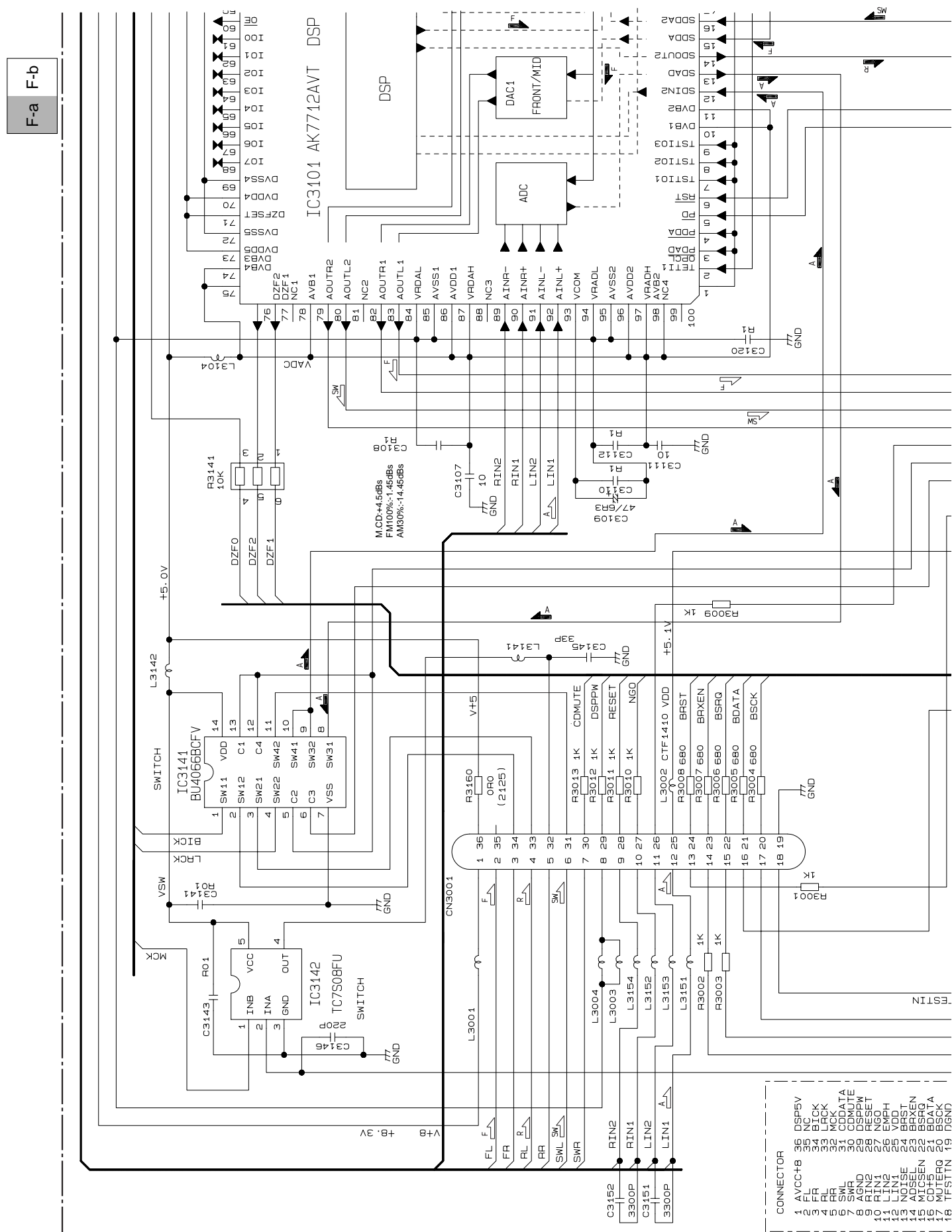


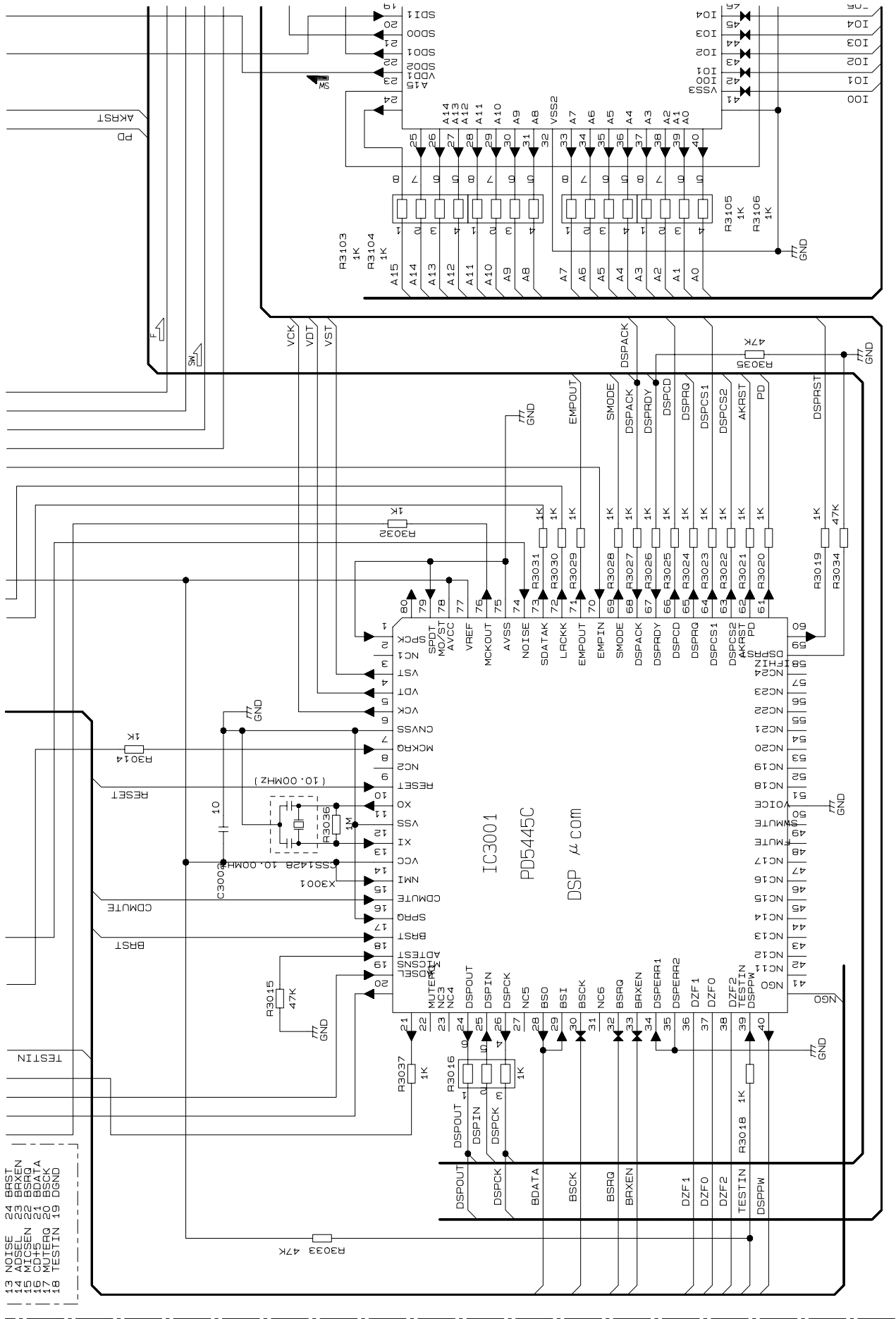
3.5 KEYBOARD PCB



F-b







F-a	F-b



F-a F-b

A : ANALOG AUDIO INPUT
F : FRONT AUDIO OUTPUT (Front/Mid)
R : REAR AUDIO OUTPUT (Rear/Hi)
SW : SUBWOOFER AUDIO OUTPUT (Sub.w/Low)

A : DIGITAL AUDIO
F : FRONT AUDIO DIGITAL
R : REAR AUDIO DIGITAL
SW : SUBWOOFER AUDIO DIGITAL

F DSP UNIT

DSP IC

DAC

IC3201

IC3301

IC3302

IC3303

IC3304

IC3305

IC3306

IC3307

IC3308

IC3309

IC3310

IC3311

IC3312

IC3313

IC3314

IC3315

IC3316

IC3317

IC3318

IC3319

IC3320

IC3321

IC3322

IC3323

IC3324

IC3325

IC3326

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IC3564

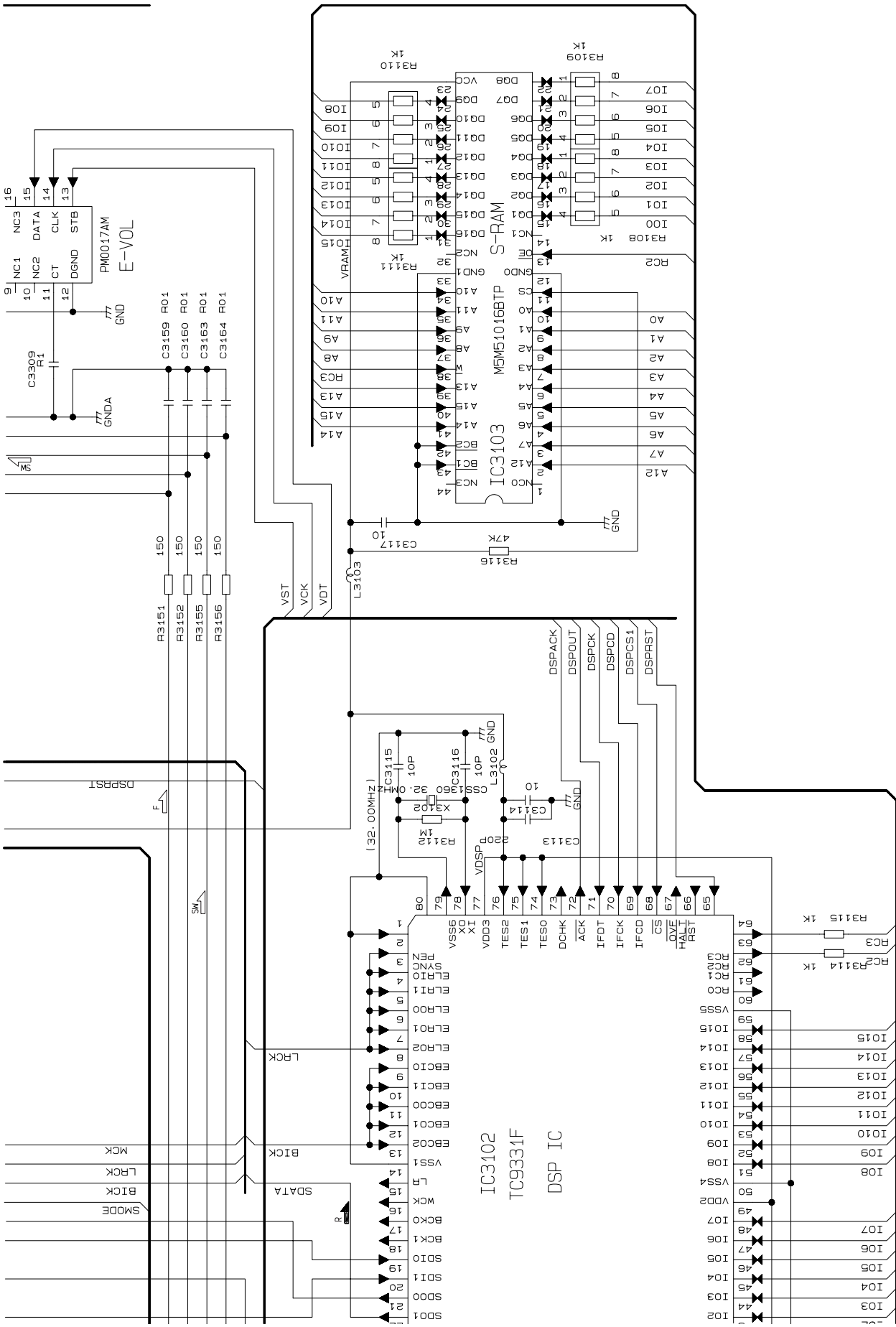
IC3565

IC3566

IC3567

IC3568

IC3569

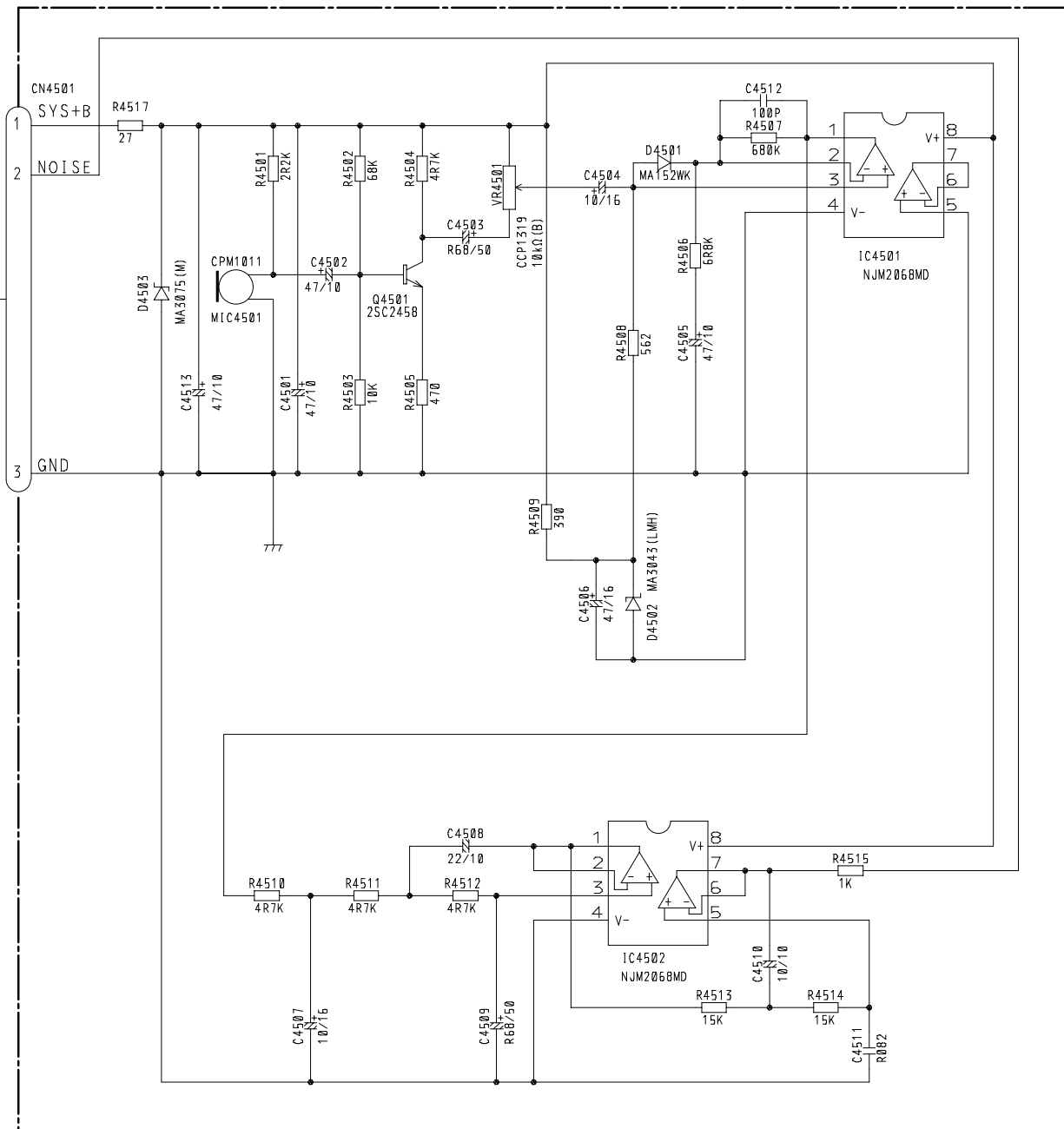


F-a F-b

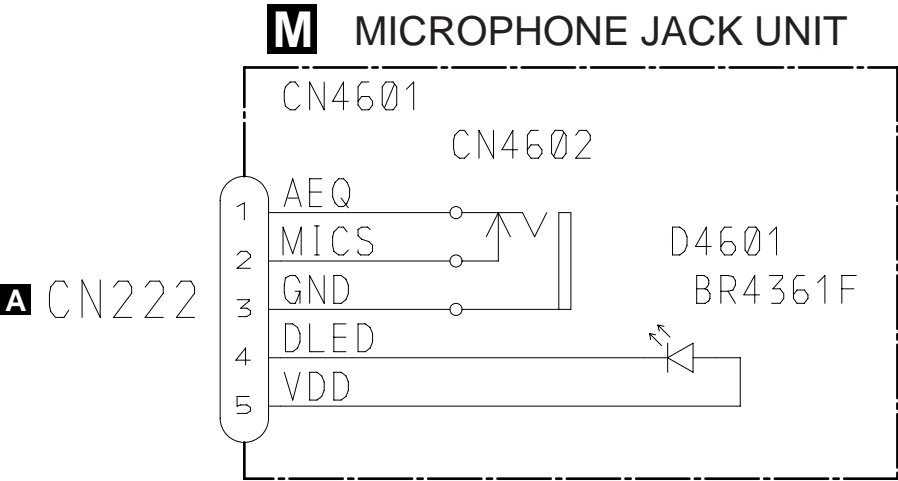
3.7 ASL UNIT

ASL UNIT

1
2
3
A CN141



3.8 MICROPHONE JACK UNIT



3.9 HIGH OUT UNIT (DEX-P1R/UC,DEX-P1/ES)

A

B

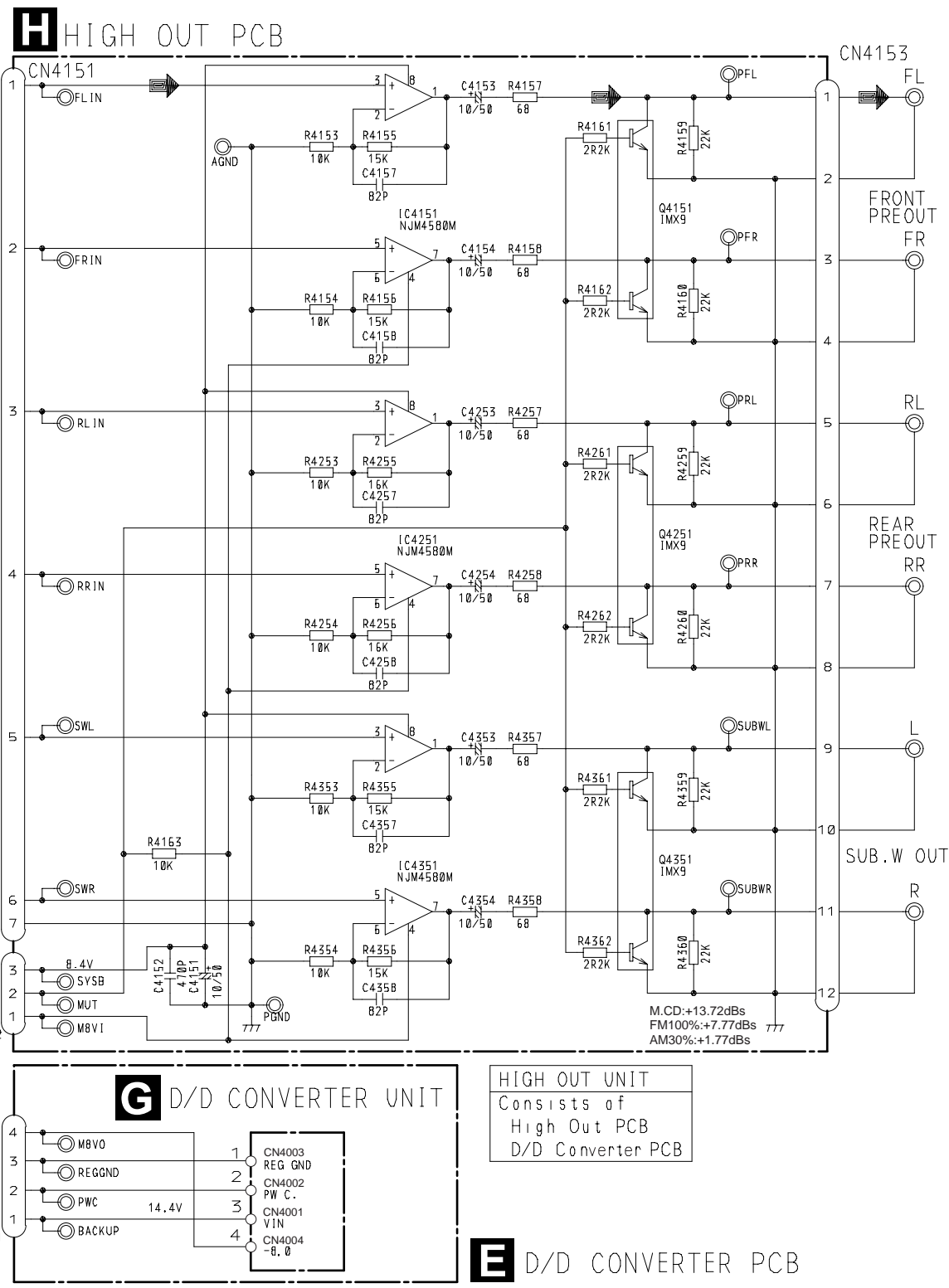
A CN231

C

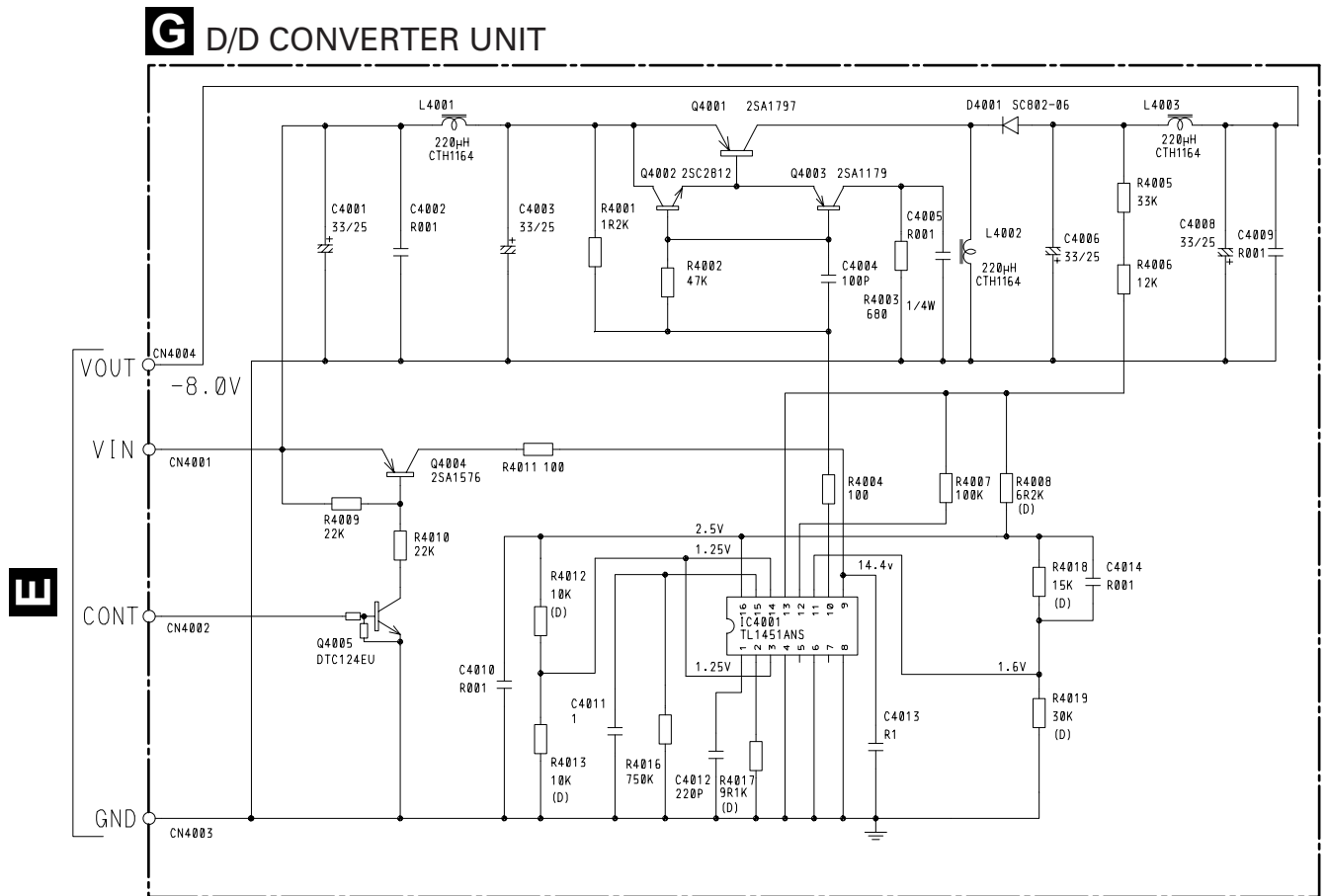
A CN252

A CN251

D



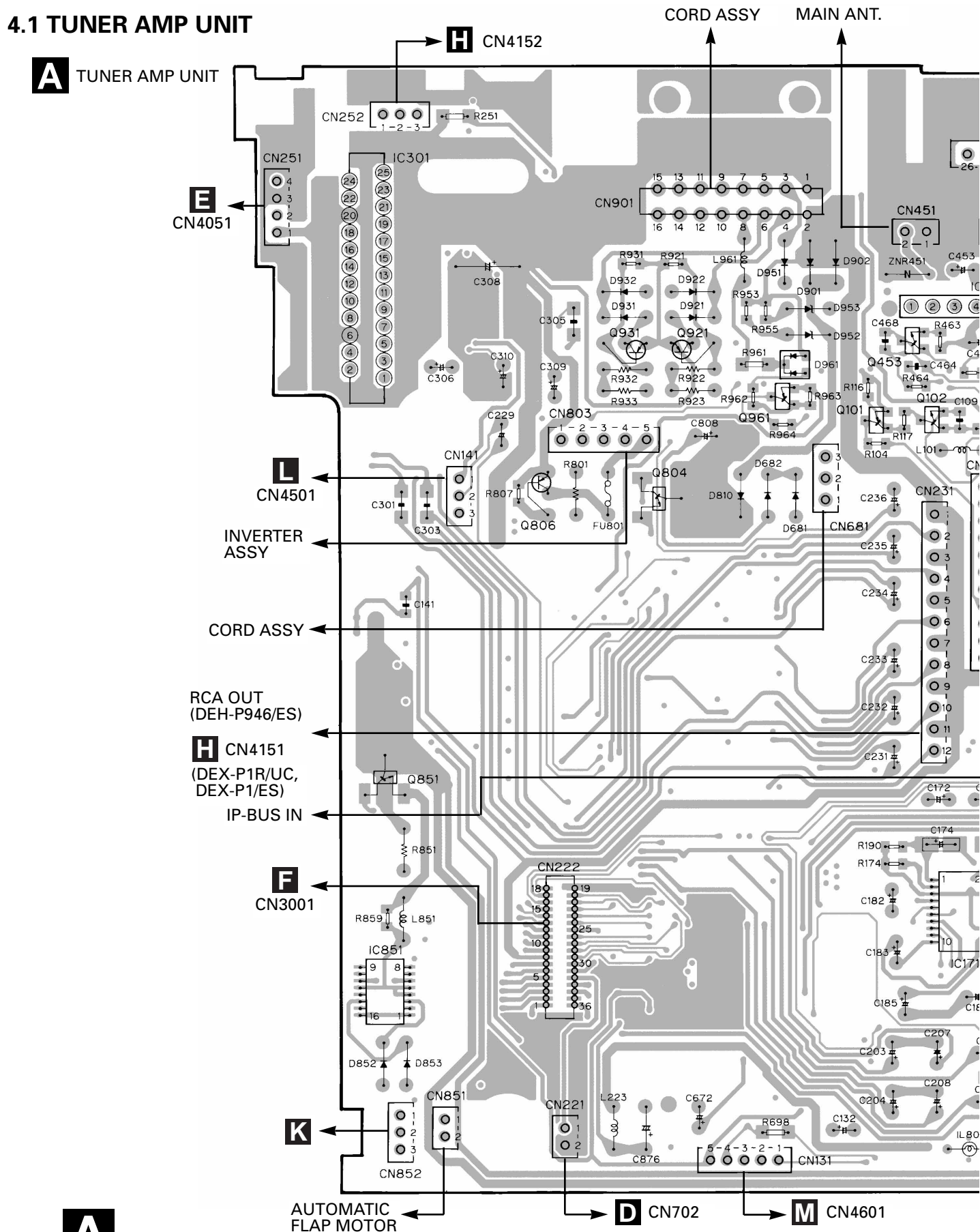
3.10 D/D CONVERTER UNIT (DEX-P1R/UC,DEX-P1/ES)



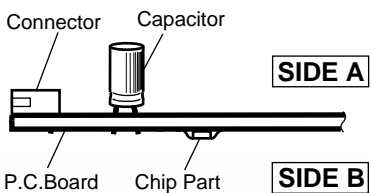
- The parts mounted on this PCB include all necessary parts for several destination.
- For further information for respective destinations, be sure to check with the schematic diagram.

4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT



2. Viewpoint of PCB diagrams



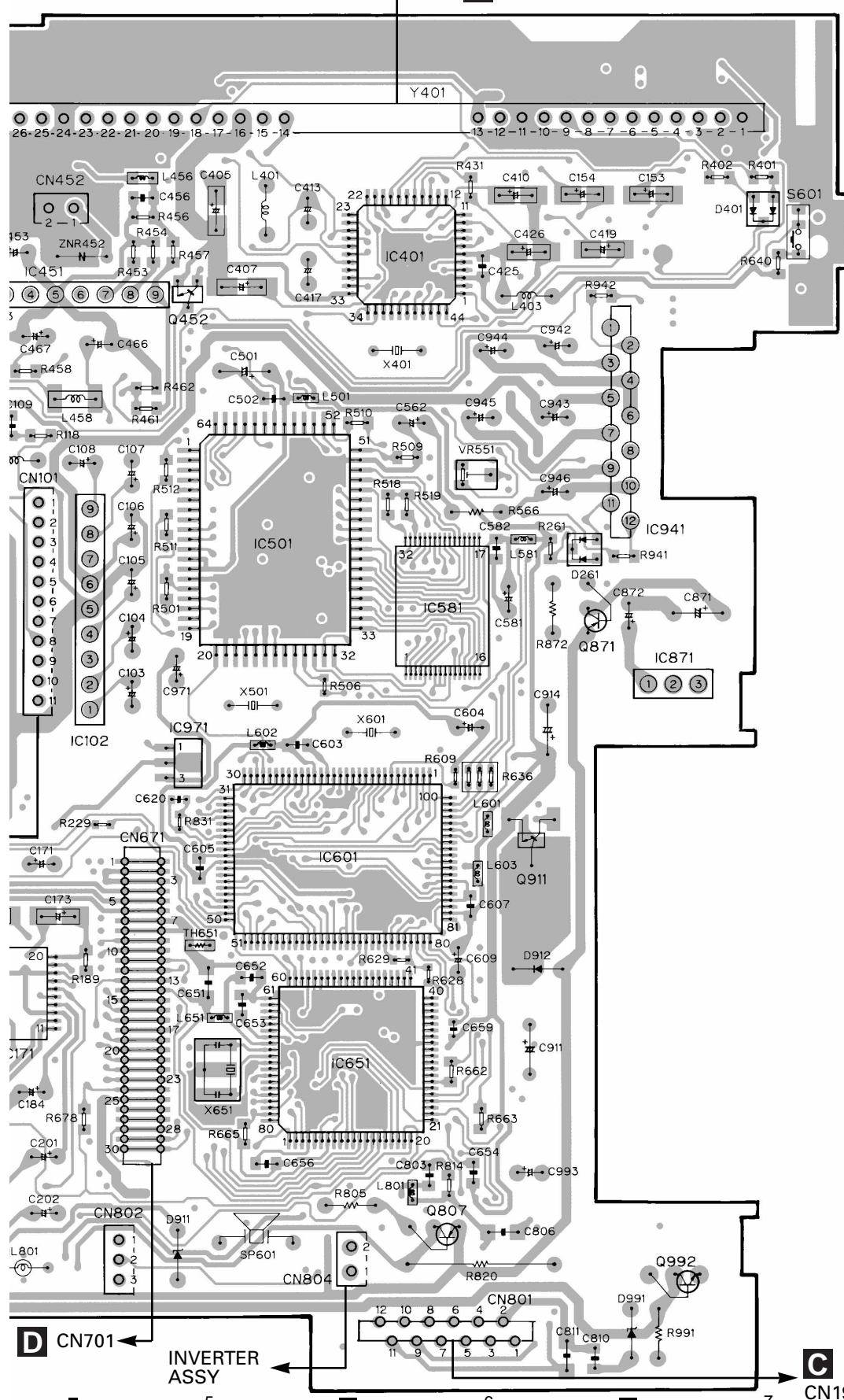
SIDE A

A

B

C

D



ADJ | IC. Q

IC301 IC401

IC451 Q452

Q931 Q921 Q453

Q961 IC941

Q101	Q102
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
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94	94
95	95
96	96
97	97
98	98
99	99
100	100

VR551

Q806 Q804 IC501

IC102 IC581 Q871

IC871

IC971

Q851 IC601 Q911

IC171

IC851 IC651

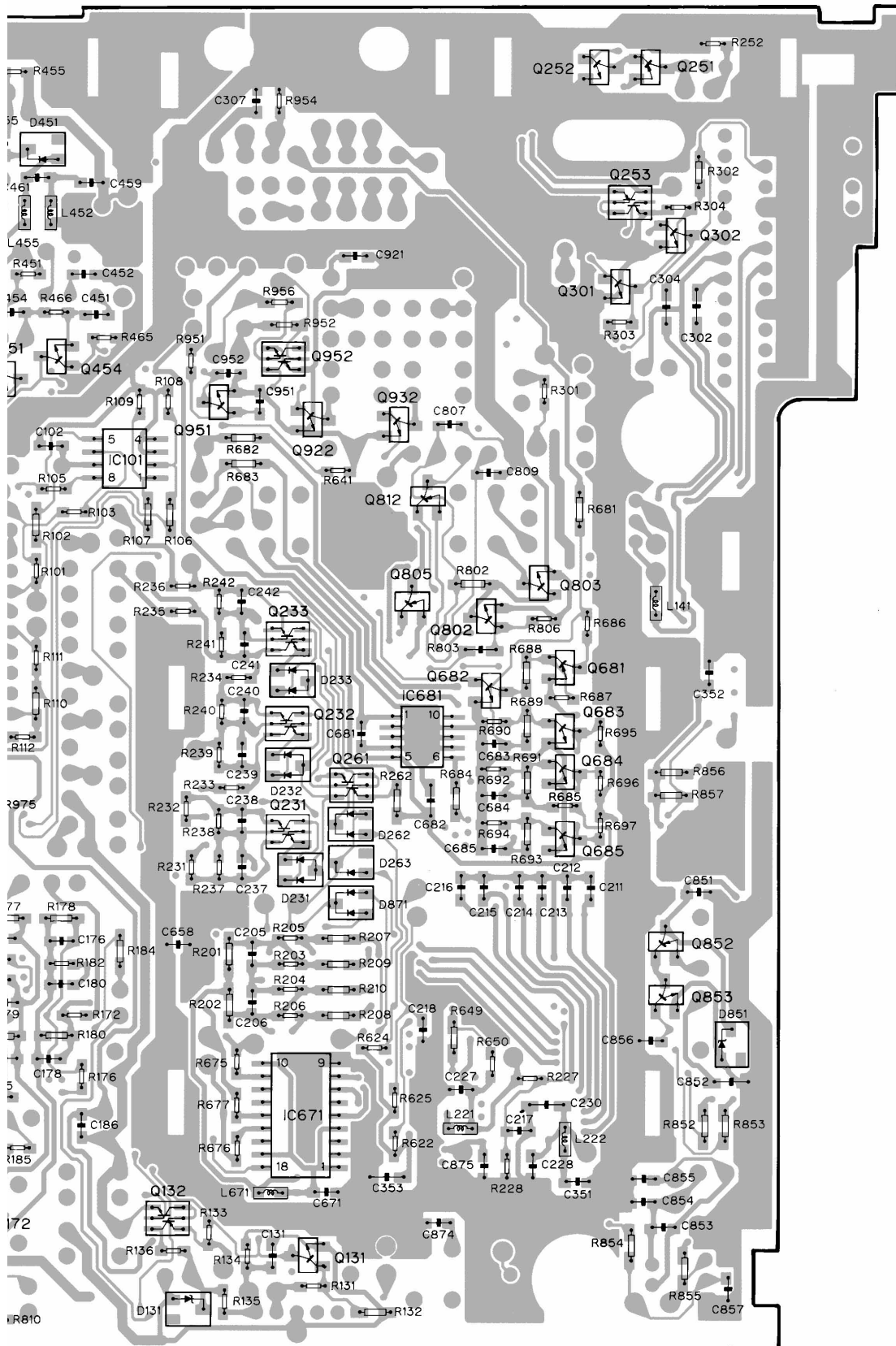
Q807

Q992

A



SIDE B



IC, Q

Q401 Q252 Q251

Q151 Q152

Q402 Q253

Q302

Q154

Q153 Q301

Q403

Q454 Q952

Q451

Q951

Q922 Q932

IC101

Q551 Q812

IC551

Q872 Q803

Q805 Q802

Q233

IC552 Q681

Q682

Q232 IC681 Q683

Q971 Q261 Q684

Q231 Q685

Q601

Q852

Q913

Q853

Q651

IC671

Q171

Q172 Q132

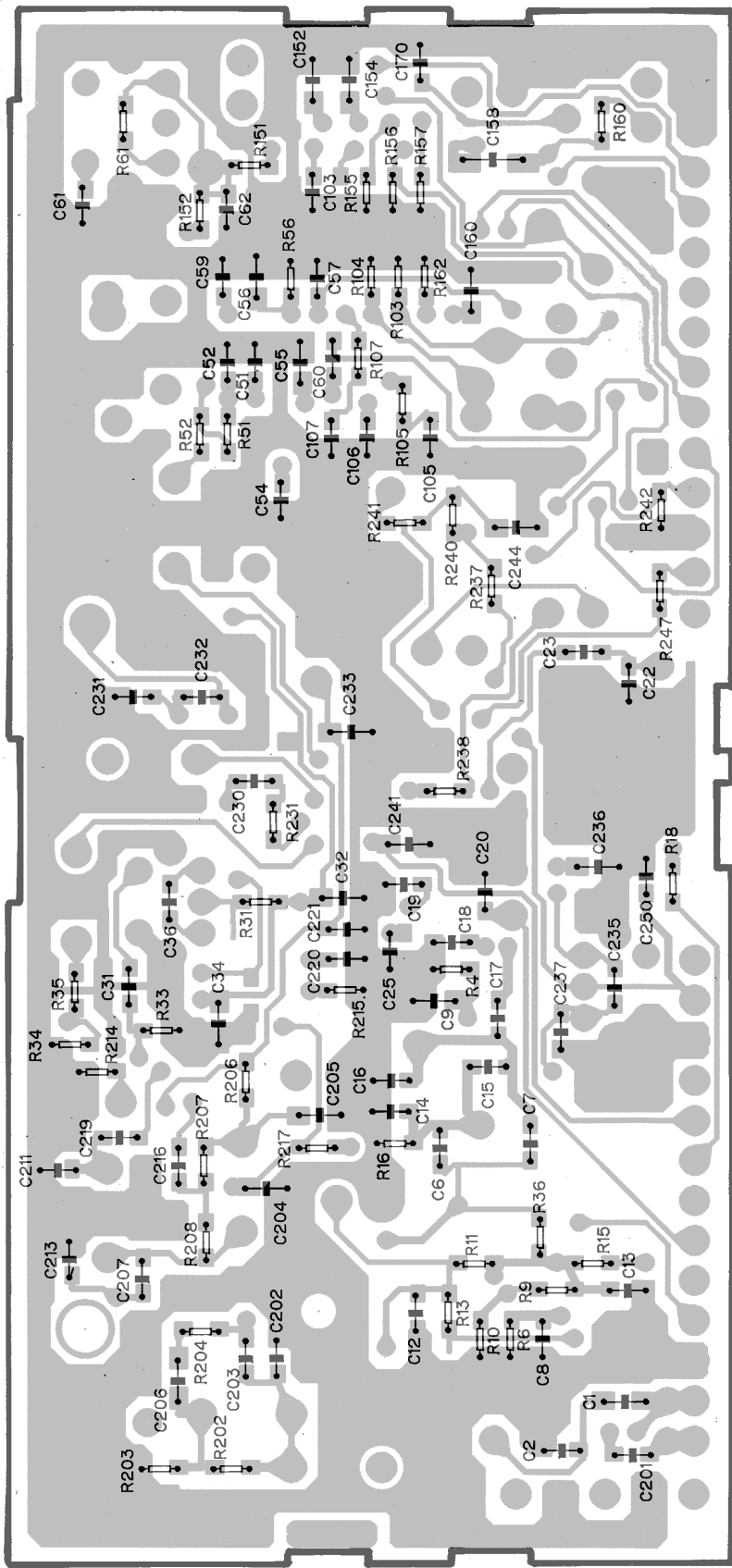
Q808 Q602 Q131

Q811 Q810

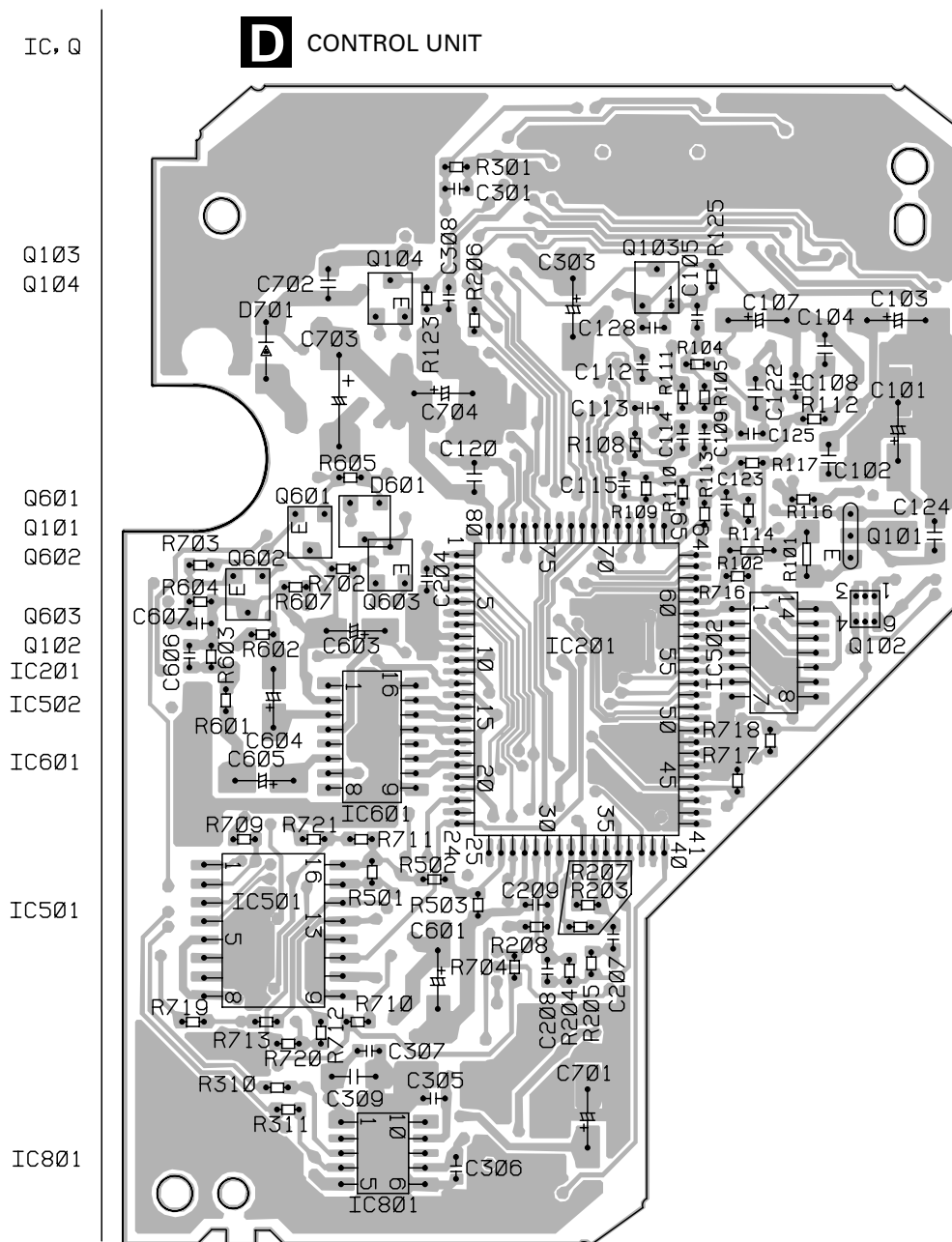
Q991

SIDE B

FM/AM TUNER UNIT



SIDE A



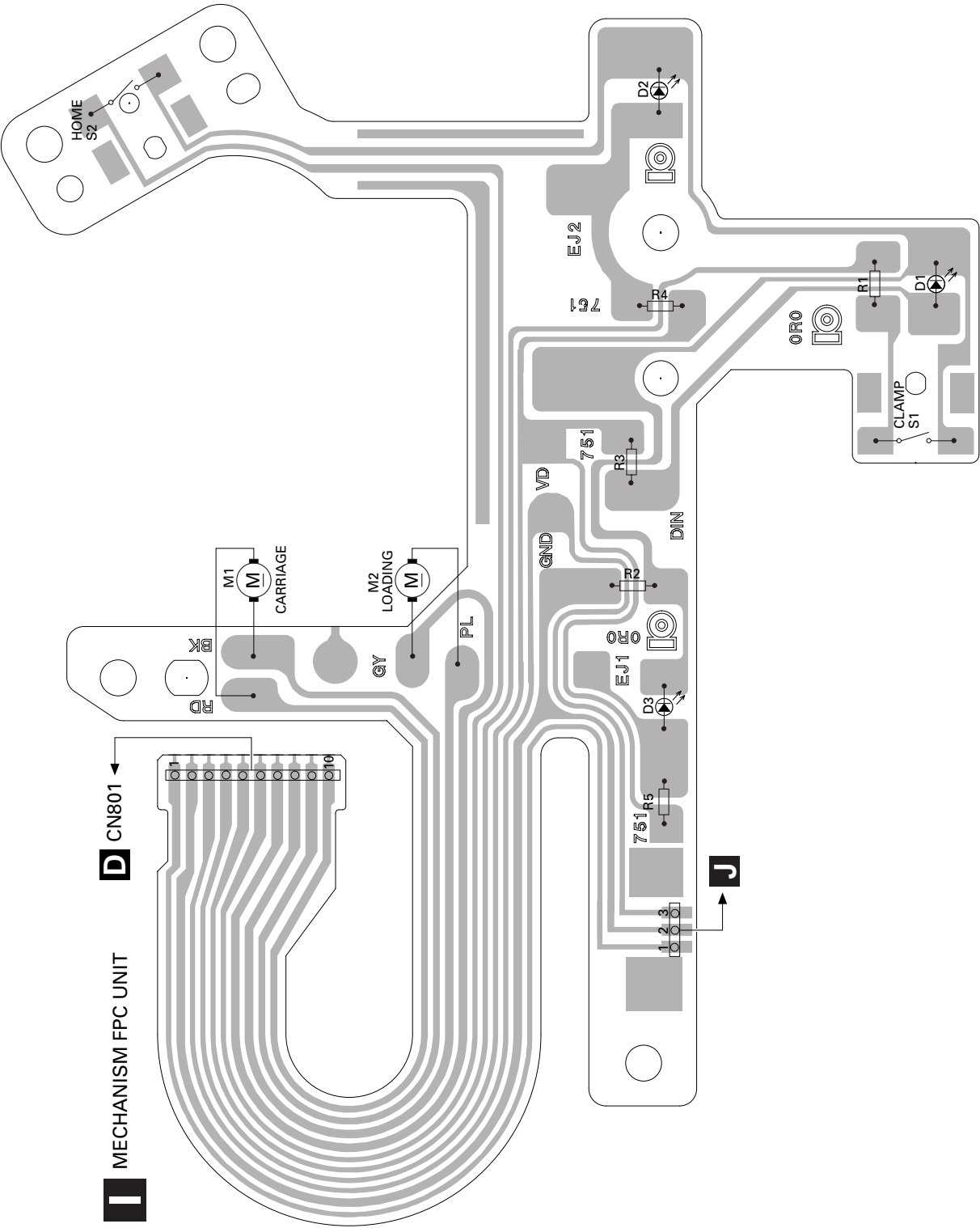


PHOTO FPC UNIT

J

I

J

66

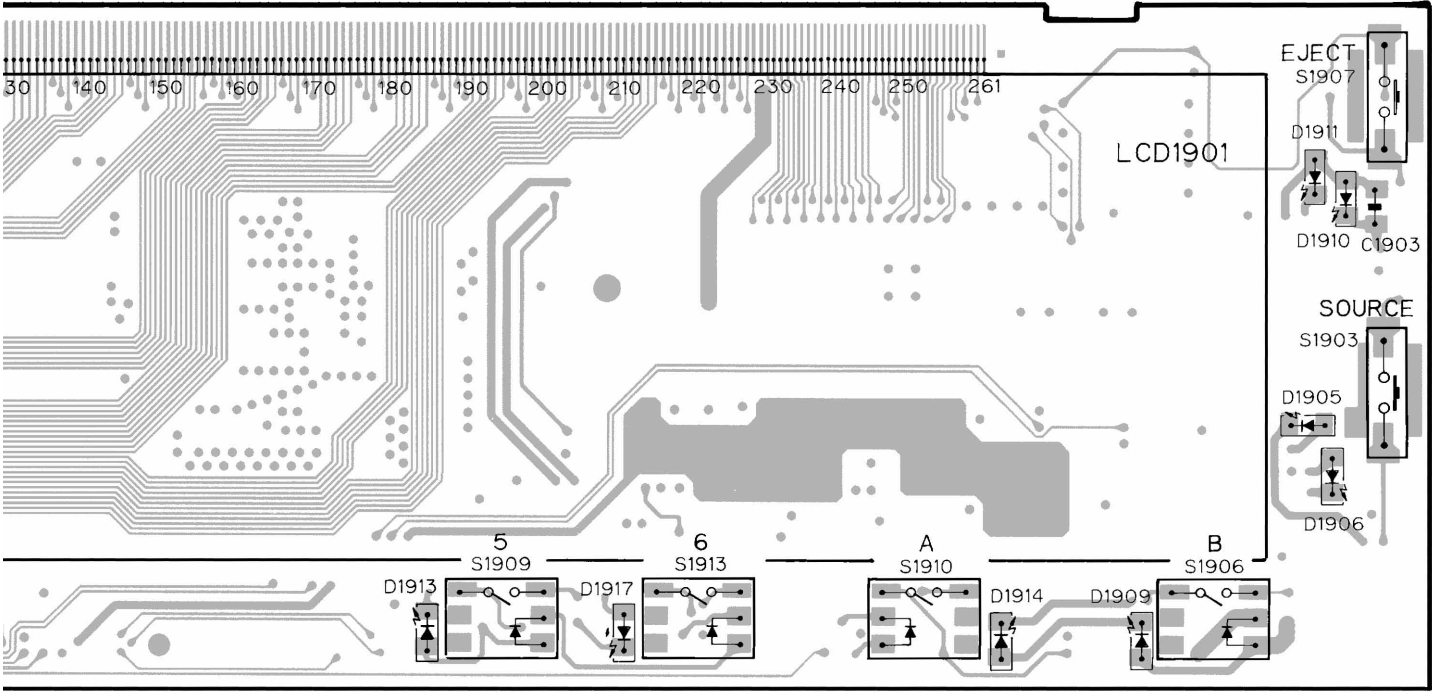
1

2

3

A CN801

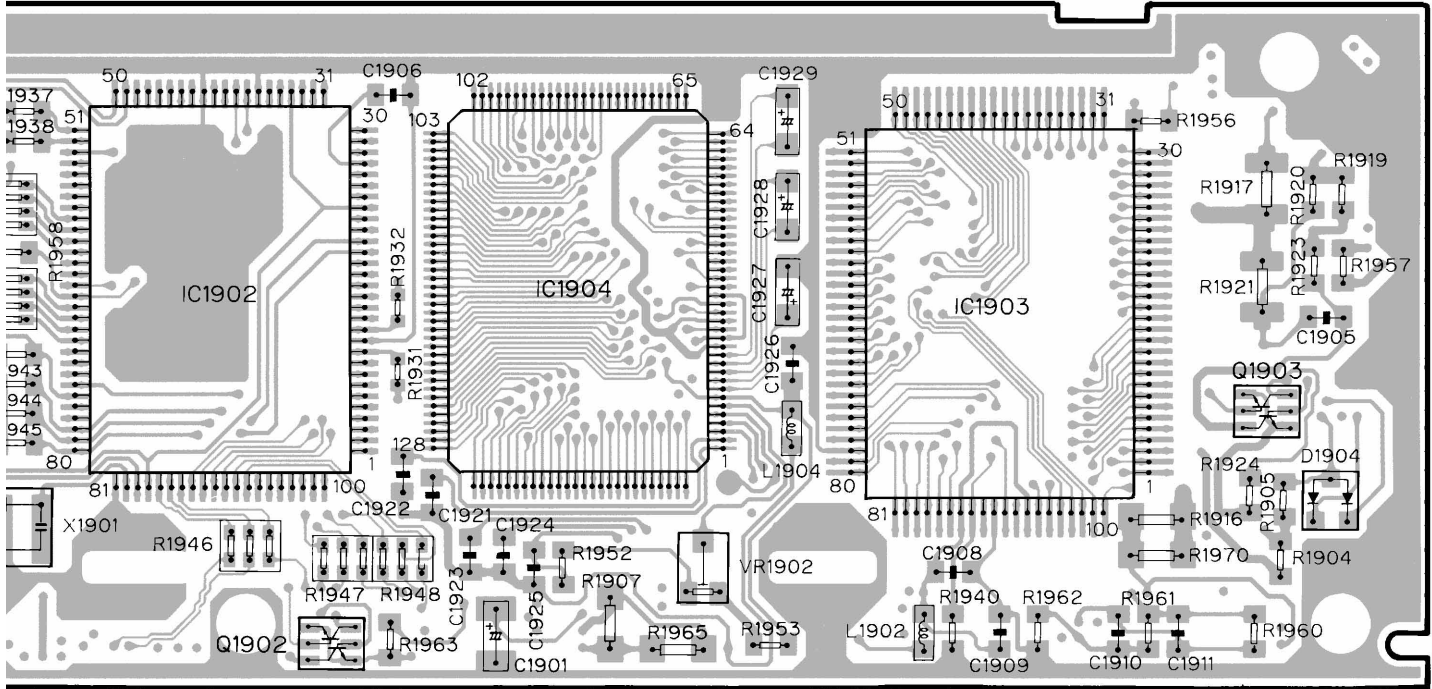
SIDE A



SIDE B

IC1902 Q1902 IC1904 IC1903 Q1903

VR1902



A

B

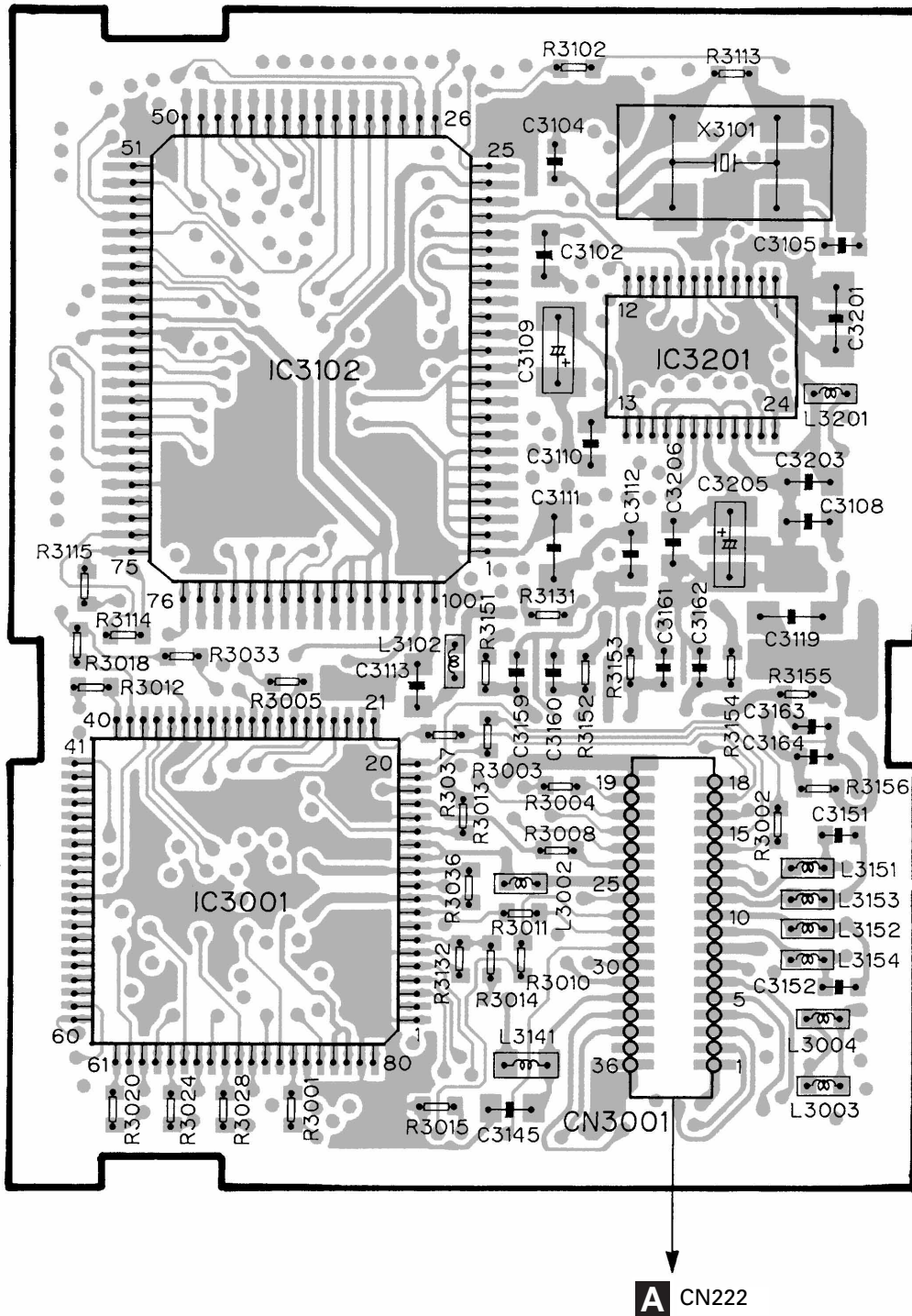
C

D

F

SIDE B

F DSP UNIT



IC

IC3102

IC3201

IC3001

A CN222

4.6 ASL UNIT

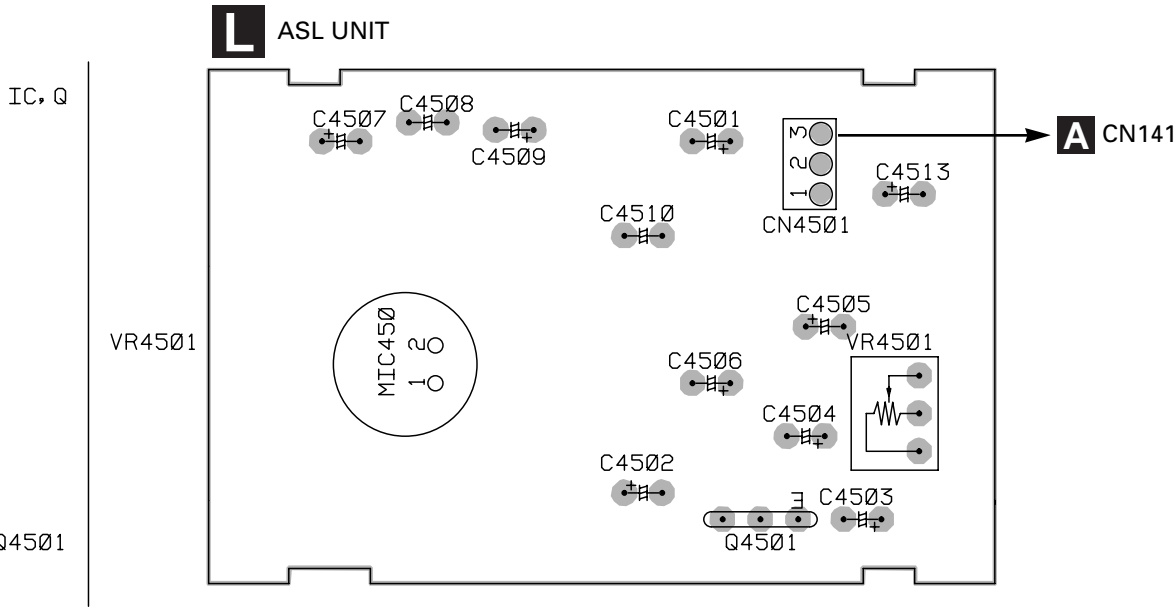
SIDE A

A

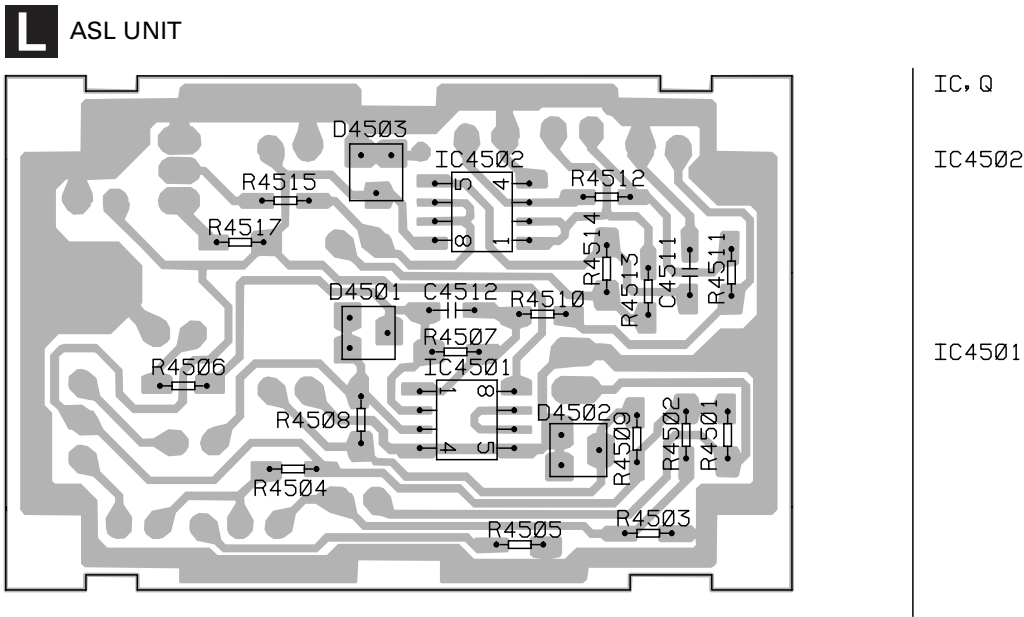
B

C

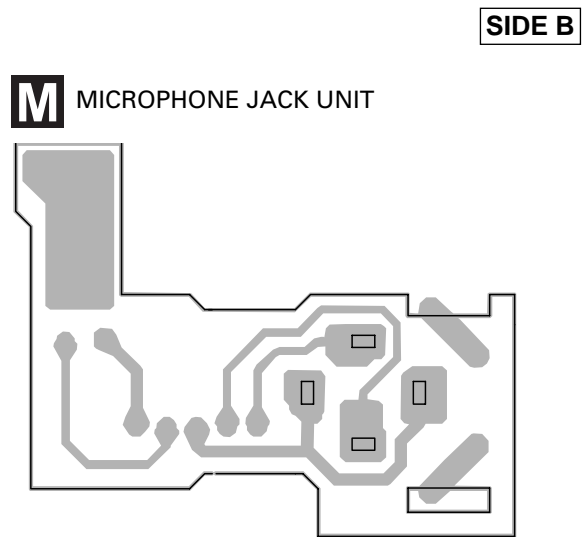
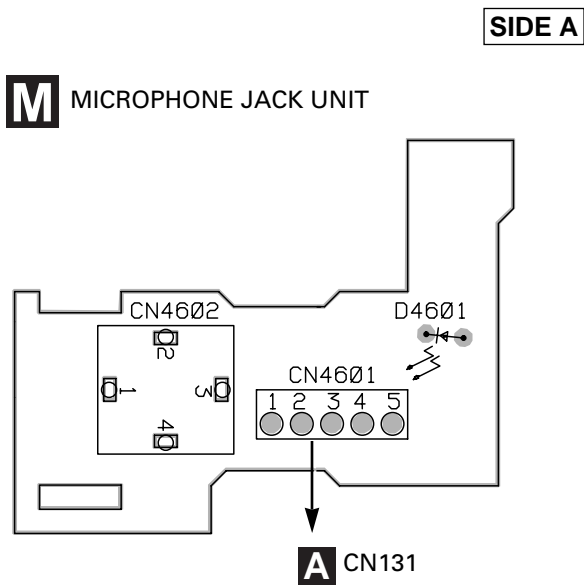
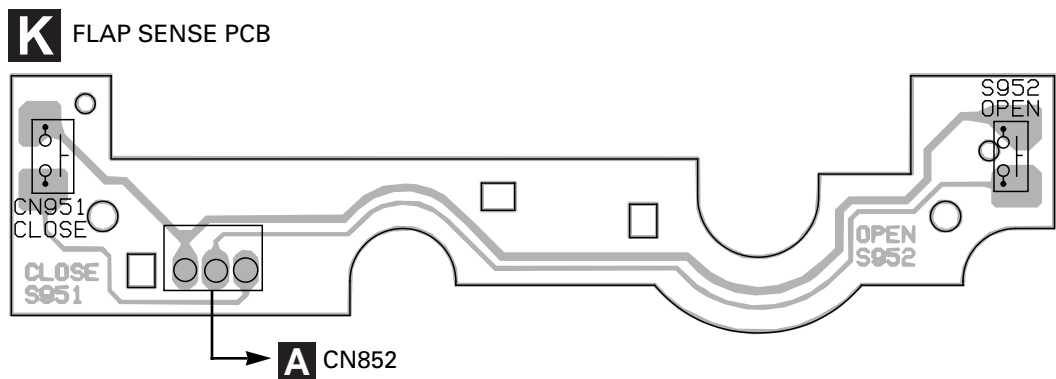
D



SIDE B



4.7 FLAP SENSE PCB, MICROPHONE JACK UNIT



4.8 D/D CONVERTER UNIT, D/D CONVERTER PCB (DEX-P1R/UC, DEX-P1/ES)

A

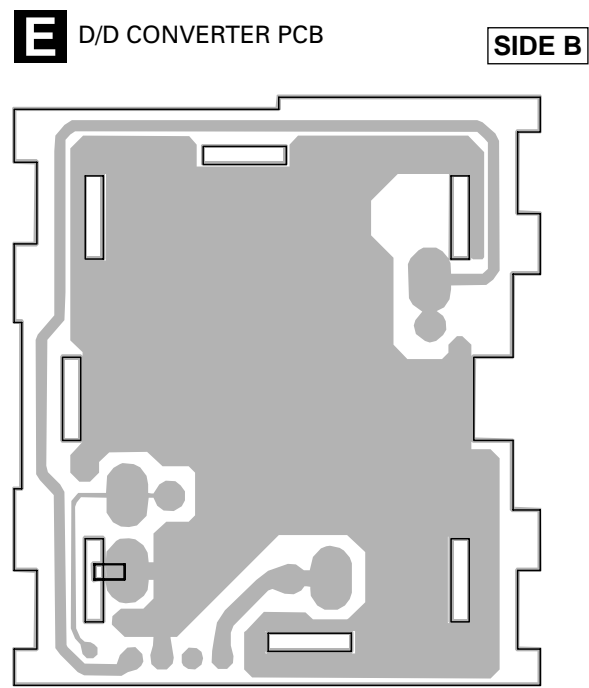
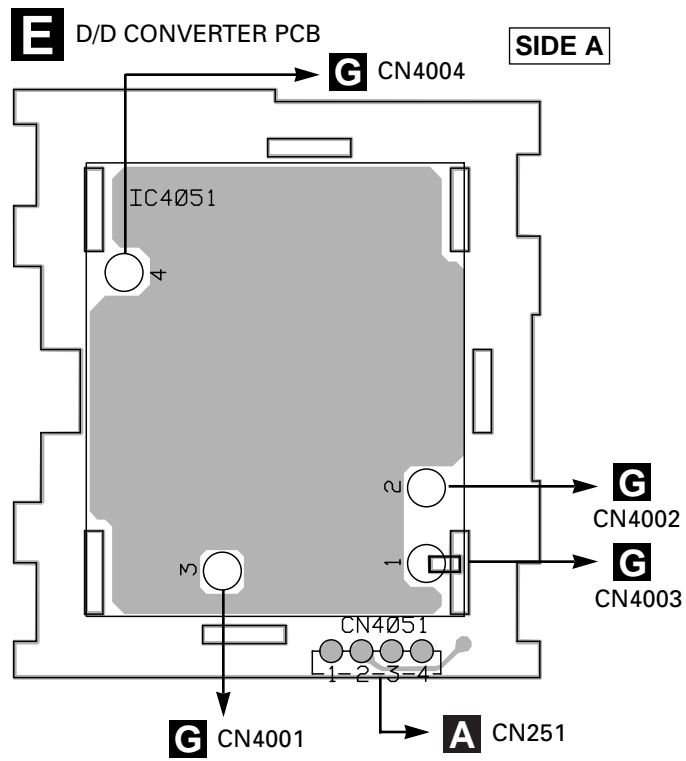
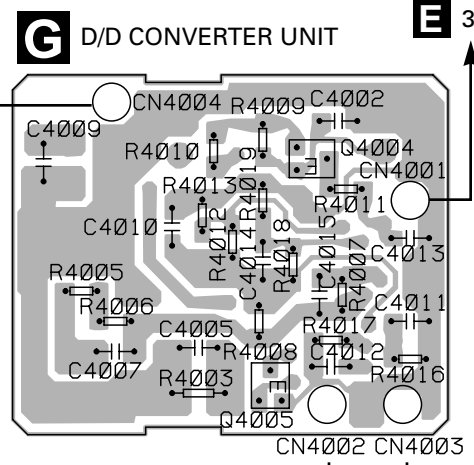
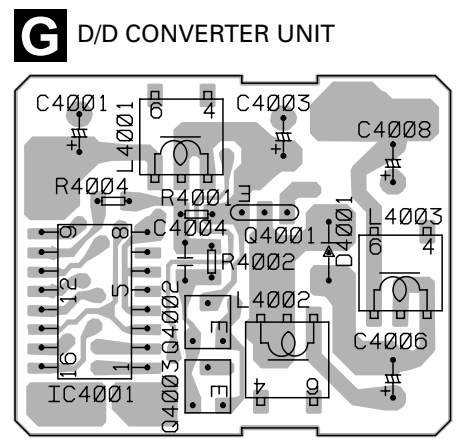
B

C

D

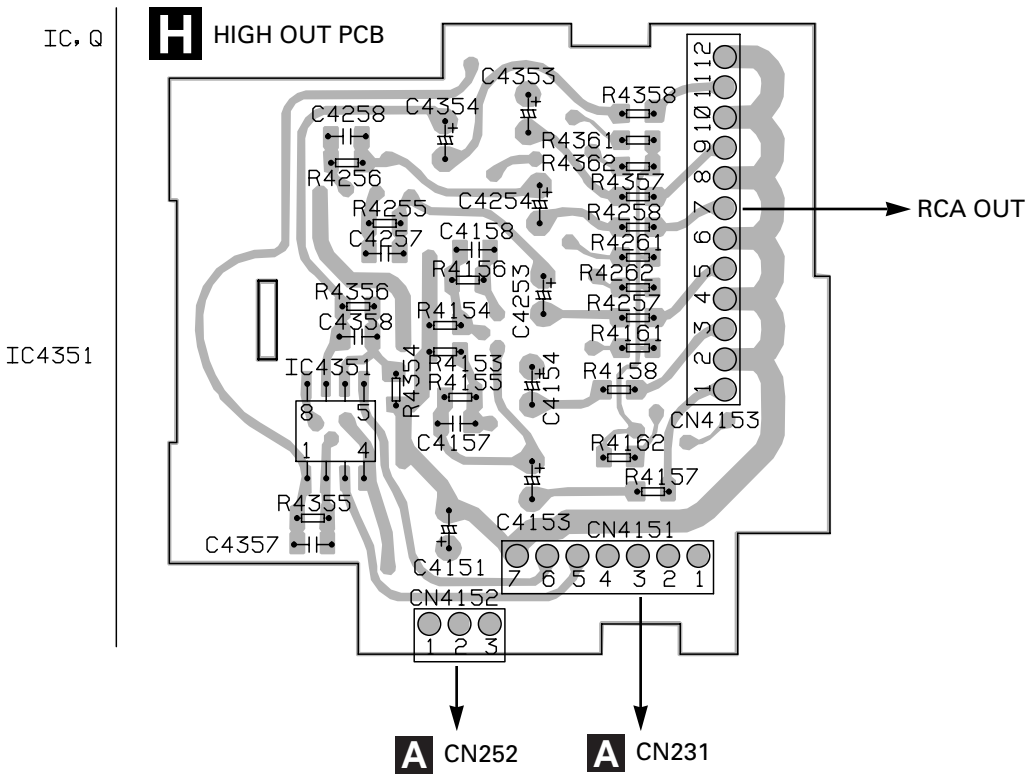
SIDE A

SIDE B

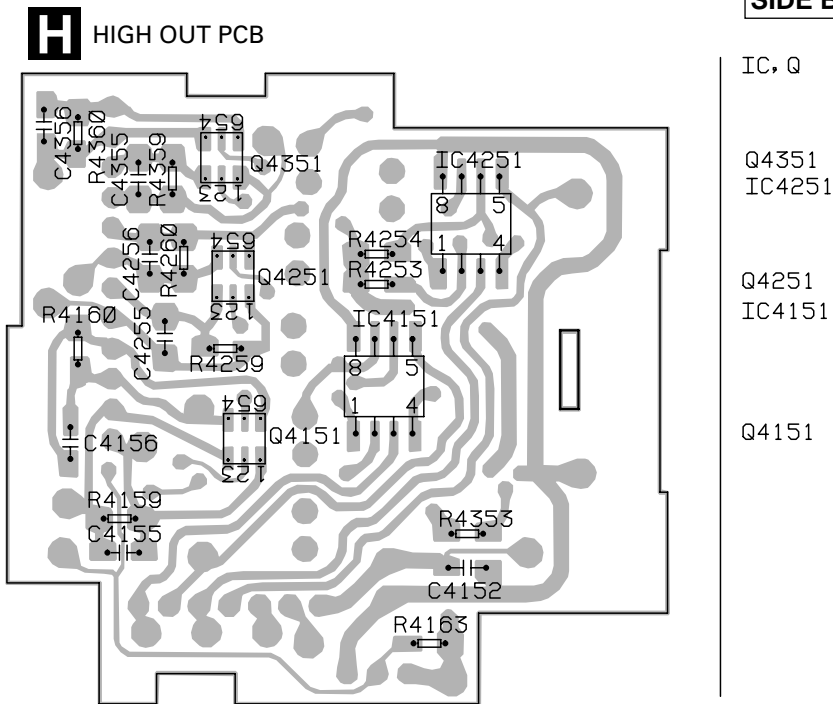


4.9 HIGH OUT PCB (DEX-P1R/UC, DEX-P1/ES)

SIDE A



SIDE B



5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
B Unit Number : CWE1472(DEX-P1R/UC) Unit Number : CWE1485(DEH-P946/ES,DEX-P1/ES) Unit Name : FM/AM Tuner Unit		RESISTORS	
MISCELLANEOUS		R 1	RS1/16S225J
IC 1 IC	PA4023B	R 2	RS1/16S225J
IC 2 IC	PA4024A	R 4	RS1/16S154J
Q 1 Transistor	2SC2412K	R 5	RS1/16S391J
Q 2 Transistor	DTC124EU	R 6	RS1/16S223J
Q 3 FET	3SK263	R 7	RS1/16S123J
		R 8	RS1/16S332J
Q 31 Transistor	2SC2412K	R 9	RS1/16S473J
Q 201 FET	2SK932	R 10	RS1/16S223J
Q 202 Transistor	2SC2412K	R 11	RS1/16S124J
Q 203 Transistor	DTC124EU	R 13	RS1/16S563J
D 1 Diode	RD39JS	R 15	RS1/16S271J
		R 16	RS1/16S104J
D 2 Diode	RD39JS	R 17	RS1/16S332J
D 4 Diode	1SV250	R 18	RS1/16S332J
D 5 Diode	KV1410-F1	R 31	RS1/16S470J
D 6 Diode	MA157	R 32	RS1/16S822J
D 7 Diode	KV1410-F1	R 33	RS1/16S822J
		R 34	RS1/16S331J
D 8 Diode	KV1410-F1	R 35	RS1/16S331J
D 201 Diode	MA157	R 51	RS1/16S271J
D 202 Diode	MA157	R 52	RS1/16S560J
D 231 Diode	SVC253	R 55	RS1/16S102J
L 2 Coil (DEX-P1R/UC)	CTC1126	R 56	RS1/16S823J
		R 61	RS1/16S392J
L 2 Coil (DEH-P946/ES,DEX-P1/ES)	CTC1108	R 62	RS1/16S273J
L 3 Inductor	LCTB2R2K2125	R 101	RS1/16S272J
L 4 Coil (DEX-P1R/UC)	CTC1126	R 102	RS1/16S682J
L 4 Coil (DEH-P946/ES,DEX-P1/ES)	CTC1108	R 103	RS1/16S333J
L 5 Coil (DEX-P1R/UC)	CTC1125	R 104	RS1/16S334J
L 5 Coil (DEH-P946/ES,DEX-P1/ES)	CTC1107	R 105	RS1/16S683J
L 6 Inductor (DEH-P946/ES,DEX-P1/ES)	LCTBR15K1608	R 107	RS1/16S222J
L 51 Ferri-Inductor	LAU150K	R 151	RS1/16S222J
L 201 Ferri-Inductor	LAU4R7K	R 152	RS1/16S393J
L 202 Ferri-Inductor	LAU330K	R 155	RS1/16S273J
L 203 Inductor	CTF1287	R 156	RS1/16S243J
L 208 Inductor	LAU121K	R 157	RS1/16S203J
L 231 Inductor	LCTA3R3J3225	R 160	RS1/16S222J
T 31 Coil	CTE1117	R 161	RS1/16S563J
T 51 Coil (DEX-P1R/UC)	CTC1159	R 162	RS1/16S105J
T 51 Coil (DEH-P946/ES,DEX-P1/ES)	CTC1136	R 163	RS1/16S223J
CF 51 Ceramic Filter (DEX-P1R/UC)	CTF1292	R 202	RS1/16S223J
CF 51 Ceramic Filter		R 203	RS1/16S225J
(DEH-P946/ES,DEX-P1/ES)	CTF1290	R 204	RS1/16S103J
CF 52 Ceramic Filter (DEX-P1R/UC)	CTF1292	R 206	RS1/16S220J
CF 52 Ceramic Filter		R 207	RS1/16S101J
(DEH-P946/ES,DEX-P1/ES)	CTF1290	R 208	RS1/16S102J
CF 53 Ceramic Filter (DEX-P1R/UC)	CTF1292	R 209	RS1/16S471J
CF 53 Ceramic Filter		R 214	RS1/16S822J
(DEH-P946/ES,DEX-P1/ES)	CTF1290	R 215	RS1/16S822J
CF 232 Ceramic Filter	CTF1348		
X 151 Resonator 918.5Hz	CSS1365		
X 231 Crystal Resonator 10.26MHz	CSS1111		
VR 154 Semi-fixed 150kΩ(B)	CCP1213		

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 217	RS1/16S102J	C 161	CKSQYB104K16
R 231	RS1/16S272J	C 162	CEJA3R3M50
R 232	RS1/16S473J	C 163	CKSRYB102K50
R 237	RS1/16S103J	C 170	CCSRCH100D50
R 238	RS1/16S104J	C 201	CCSRCH471J50
R 239	RS1/16S104J	C 202	CCSRCH100D50
R 240	RS1/16S332J	C 203	CKSRYB332K50
R 241	RS1/16S202J	C 204	CKSQYB473K16
R 243	RS1/16S183J	C 205	CKSQYB473K16
R 244	RS1/16S392J	C 206	CKSQYB104K16
R 247	RS1/16S123J	C 207	CCSRCH560J50
CAPACITORS		C 209	CKSQYB104K16
C 1	CCSQCH6R0D50	C 211	CCSRCH101J50
C 2	CCSRCK2R0C50	C 212	CEJA470M6R3
C 4	CCSRCH820J50	C 213	CKSRYB103K25
C 6	CCSRCH820J50	C 216	CCSRCH101J50
C 8	CKSRYB103K25	C 217	CEJA1R5M50
C 9	CKSQYB104K16	C 219	CCSRCH471J50
C 10	CCSRCKR50C50	C 220	CKSRYB103K25
C 11	CEJA1R0M50	C 230	CKSRYB103K25
C 12	CKSRYB222K50	C 231	CCSRCH330J50
C 13	CKSRYB222K50	C 232	CCSRCH150J50
C 14	CCSRCH220J50	C 233	CKSQYB104K16
C 15	CCSRCH6R0D50	C 234	CEJA330M10
C 16	CCSRCH8R0D50	C 235	CKSRYB332K50
C 17	CKSRYB222K50	C 236	CKSQYB473K16
C 18	CKSRYB103K25	C 237	CCSRCH120J50
C 19	CKSRYB222K50	C 239	CKSRYB472K50
C 20	CKSRYB222K50	C 240	CEJAR47M50
C 21	CEJA100M16	C 241	CKSQYB104K16
C 22	CCSRTH9R0D50	C 242	CEJAR47M50
C 23	CCSRTH120J50	C 243	CEJAR33M50
C 24	CCSRCH471J50	C 244	CKSQYB473K16
C 25	CKSRYB103K25	C 245	CKSRYB333K16
C 26 (DEX-P1R/UC)	CCSRCH101J50	C 246	CKSQYB473K16
C 31	CKSRYB103K25	C 250	CCSRCH471J50
C 32	CKSQYB472K50		
C 33	CCSRCH5R0C50		
C 34	CKSQYB104K16		
C 36	CCSRRH201J50		
C 51	CKSRYB223K25		
C 52	CKSRYB103K25		
C 54	CCSRCH470J50		
C 55	CKSQYB223K25		
C 56	CKSQYB104K16		
C 57	CKSRYB472K50		
C 58	CEJA330M10		
C 59 (DEH-P946/ES,DEX-P1/ES)	CKSRYB103K25		
C 60	CKSRYB102K50		
C 61	CCSRCH270J50		
C 62	CKSRYB103K25		
C 63	CEJAR22M50		
C 101	CEJANP100M10		
C 102	CKSRYB182K50		
C 103	CKSRYB682K25		
C 104	CEJA2R2M50		
C 105	CKSRYB103K25		
C 106	CCSRCH151J50		
C 107	CKSRYB103K25		
C 151	CKSRYB472K50		
C 152	CKSQYB104K16		
C 153	CEJA3R3M50		
C 154	CKSQYB104K16		
C 157	CEJA3R3M50		
C 158	CKSYB474K16		
C 159	CEJA220M6R3		
C 160	CKSQYB104K16		
		Unit Number : CWX2166	
		Unit Name : Control Unit	
		MISCELLANEOUS	
		IC 101 IC	UPC2572GS
		IC 201 IC	UPD63702AGF
		IC 301 IC	BA6797FM
		IC 502 IC	LC89170M
		IC 702 IC	BA05SFP
		IC 801 IC	LB1930M
		Q 101 Transistor	2SD1664
		Q 102 Transistor	UMD2N
		D 701 Diode	1SR154-400
		RESISTORS	
		R 101	RS1/8S100J
		R 102	RS1/8S120J
		R 104	RS1/16S822J
		R 105	RS1/16S682J
		R 106	RS1/16S183J
		R 107	RS1/16S822J
		R 108	RS1/16S333J
		R 109	RS1/16S683J
		R 110	RS1/16S134J
		R 111	RS1/16S273J
		R 112	RS1/16S222J
		R 113	RS1/16S103J
		R 114	RS1/16S103J
		R 115	RS1/16S102J
		R 116	RS1/16S163J

====Circuit Symbol and No.==Part Name		Part No.	====Circuit Symbol and No.==Part Name		Part No.	
R	117	RS1/16S163J	C	204	CKSRYB471K50	
R	120	RS1/16S101J	C	303	CEVL470M16	
R	121	RS1/16S101J	C	305	CKSRYB103K25	
R	125	RS1/16S102J	C	306	CKSRYB103K25	
R	201	RS1/16S104J	C	309	CKSYB475K10	
R	202	RS1/16S473J	C	601	CEV101M6R3	
R	206	RS1/16S101J	C	602	CKSQYB104K16	
R	207	RS1/16S0R0J	C	701	CEV100M25	
R	208	RS1/16S0R0J	C	702	CKSQYB334K16	
R	301	RS1/16S303J	C	703	CCH1300	
R	302	RS1/16S203J	C	704	CEVL101M6R3	
R	303	RS1/16S303J	C	901	CKSRYB221K50	
R	304	RS1/16S203J	<div><div>A</div><div>Unit Number : CWM5693(DEX-P1R/UC) Unit Name : Tuner Amp Unit</div></div>			
R	305	RS1/16S103J				
R	306	RS1/16S203J				
R	307	RS1/16S103J				
R	308	RS1/16S103J	MISCELLANEOUS			
R	310	RS1/16S102J	IC	101	IC	CA0008AM
R	311	RS1/16S102J	IC	102	IC	TA2050S
R	501	RS1/16S0R0J	IC	171	IC	BA3131FS
			IC	401	IC	PM2006A
R	503	RS1/16S0R0J	IC	501	IC	PD6191A
R	701	RS1/16S221J				
R	702	RS1/16S221J	IC	551	IC	PMW001B
R	703	RS1/16S221J	IC	581	IC	PD8034A
R	705	RS1/16S102J	IC	601	IC	PD4908A
			IC	651	IC	PD4931A
			IC	671	IC	PD0236AM
R	706	RS1/16S681J				
R	707	RS1/16S681J				
R	708	RS1/16S681J	IC	681	IC	TPD1018F
R	709	RS1/16S681J	IC	851	IC	BA6288FS
R	711	RS1/16S471J	IC	871	IC	NJM78M05FA
			IC	941	IC	PA2024A
			IC	971	IC	S-80730ANDT
R	712	RS1/16S471J	Q	101	Transistor	2SA1162
R	713	RS1/16S471J	Q	102	Transistor	UN2212
R	714	RS1/16S102J	Q	131	Transistor	2SC2712
R	717	RS1/16S0R0J	Q	132	Transistor	IMD2A
R	718	RS1/16S102J	Q	171	Transistor	DTC314TK
R	901	RS1/16S302J				
CAPACITORS			Q	172	Transistor	DTC314TK
C	101	CEVL101M6R3	Q	231	Transistor	FMG13
C	102	CKSQYB104K16	Q	232	Transistor	FMG13
C	103	CEVL470M6R3	Q	233	Transistor	FMG13
C	104	CKSQYB334K16	Q	251	Transistor	DTA143EK
C	105	CCSRCH330J50	Q	252	Transistor	UN2211
			Q	253	Transistor	IMD2A
C	106	CKSRYB103K25	Q	261	Transistor	IMD2A
C	107	CEVL4R7M35	Q	302	Transistor	UN2212
C	108	CKSRYB273K25	Q	401	Transistor	2SC2712
C	109	CCSRCH101J50				
C	110	CKSQYB104K16	Q	601	Transistor	UN2111
			Q	602	Transistor	UN2211
C	111	CKSRYB332K50	Q	651	Transistor	UN2112
C	112	CKSRYB473K16	Q	681	Transistor	2SA1162
C	113	CKSRYB103K25	Q	682	Transistor	UN2212
C	114	CKSRYB391K50				
C	115	CCSRCH121J50	Q	683	Transistor	2SC2712
			Q	684	Transistor	2SC2712
C	116	CKSRYB682K25	Q	685	Transistor	2SC2712
C	117	CKSRYB333K16	Q	802	Transistor	2SC2712
C	118	CKSQYB334K16	Q	803	Transistor	UN2211
C	119	CKSQYB334K16				
C	120	CKSQYB334K16	Q	804	Transistor	2SD1760F5
			Q	805	Transistor	UN2111
C	121	CKSQYB334K16	Q	806	Transistor	2SB1238
C	122	CKSQYB104K16	Q	807	Transistor	2SB1238
C	123	CKSRYB472K50	Q	808	Transistor	DTC143EK
C	124	CKSQYB104K16				
C	125	CCSRCH6R0D50	Q	810	Transistor	2SC2712
			Q	811	Transistor	2SC2712
C	126	CKSRYB153K25	Q	812	Transistor	DTA144EK
C	127	CCSRCH102J25	Q	851	Transistor	2SD1760F5
C	201	CKSQYB334K16	Q	852	Transistor	UN2111
C	202	CKSQYB104K16				
C	203	CKSQYB104K16				

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
Q 853 Transistor	UN2212	TH 651 Thermistor	CCX1037
Q 871 Transistor	2SB1238	X 401 Crystal Resonator 7.200MHz	CSS1379
Q 872 Transistor	DTC123EK	X 501 Crystal Resonator 4.332MHz	CSS1056
Q 911 Transistor	2SD1760F5	X 601 Resonator 12.58291MHz	CSS1402
Q 913 Transistor	IMD2A	X 651 Resonator 4.19MHz	CSS1436
Q 921 Transistor	2SB1243	S 601 Slide Switch(PRO/STD)	CSH1048
Q 922 Transistor	UN2212	IL 801 Lamp 14V40mA	CEL1359
Q 931 Transistor	2SB1243		CWX2215
Q 932 Transistor	UN2212		CWX2213
Q 951 Transistor	UN2211		CWE1472
Q 952 Transistor	IMX1	BZ 601 Buzzer	CPV1012
Q 961 Transistor	2SA1162	FU 801 IC Protector 0.4A	ICP-N10
Q 971 Transistor	2SC2712		
Q 991 Transistor	IMD2A	RESISTORS	
Q 992 Transistor	2SD2396	R 101	RS1/10S620J
D 131 Diode	MA3039(L)	R 102	RS1/10S101J
D 231 Diode	MA152WA	R 103	RS1/10S101J
D 232 Diode	MA152WA	R 104	RS1/10S222J
D 233 Diode	MA152WA	R 105	RS1/10S103J
D 261 Diode	MA152WK		
D 262 Diode	MA152WK	R 106	RS1/10S102J
D 263 Diode	MA152WK	R 107	RS1/10S102J
D 401 Diode	MA152WK	R 108	RS1/10S473J
D 551 Diode	MA3047(M)	R 109	RS1/10S473J
D 681 Diode	ERA15-02VH	R 110	RS1/10S223J
D 682 Diode	ERA15-02VH	R 111	RS1/10S181J
D 803 Diode	MA3062(M)	R 112	RS1/10S102J
D 804 Diode	DA204K	R 113	RS1/10S102J
D 805 Diode	DA204K	R 114	RS1/10S181J
D 806 Diode	DA204K	R 115	RS1/10S223J
D 807 Diode	DA204K	R 116	RS1/10S332J
D 808 Diode	MA3062(M)	R 117	RS1/10S562J
D 809 Diode	DA204K	R 118	RS1/10S472J
D 810 Diode	ERA15-02VH	R 131	RS1/10S103J
D 851 Diode	MA3075(H)	R 132	RS1/10S223J
D 852 Diode	1SS133	R 133	RS1/10S473J
D 853 Diode	1SS133	R 134	RS1/10S104J
D 871 Diode	MA152WK	R 135	RS1/10S222J
D 901 Diode	ERA15-02VH	R 136	RS1/10S561J
D 902 Diode	ERA15-02VH	R 151	RS1/10S162J
D 911 Diode	HZS6L(B1)	R 152	RS1/10S162J
D 912 Diode	ERA15-02VH	R 153	RS1/10S0R0J
D 921 Diode	ERA15-02VH	R 154	RS1/10S0R0J
D 922 Diode	ERA15-02VH	R 171	RS1/10S393J
D 931 Diode	ERA15-02VH	R 172	RS1/10S393J
D 932 Diode	ERA15-02VH	R 173	RS1/10S752J
D 951 Diode	ERA15-02VH	R 174	RS1/10S752J
D 952 Diode	HZS7L(C3)	R 175	RS1/10S222J
D 953 Diode	HZS7L(A1)	R 176	RS1/10S222J
D 961 Diode	MA152WK	R 177	RS1/10S473J
D 971 Diode	MA152WK	R 178	RS1/10S473J
D 991 Diode	HZS9L(B1)	R 179	RS1/10S513J
L 101 Inductor	LAU3R3K	R 180	RS1/10S513J
L 141 Inductor	CTF1420	R 181	RS1/10S563J
L 221 Inductor	CTF1295	R 182	RS1/10S563J
L 222 Inductor	LCTB2R2K2125	R 184	RS1/10S103J
L 223 Ferri-Inductor	LAU1R0M	R 185	RS1/10S224J
L 401 Ferri-Inductor	LAU2R2K	R 186	RS1/10S102J
L 403 Inductor	LAU2R2K	R 187	RS1/10S102J
L 501 High Loss Inductor	CTF1410	R 189	RS1/10S104J
L 551 Inductor	CTF1295	R 190	RS1/10S104J
L 581 High Loss Inductor	CTF1410	R 201	RS1/10S472J
L 601 High Loss Inductor	CTF1410	R 202	RS1/10S472J
L 602 High Loss Inductor	CTF1410	R 203	RS1/10S472J
L 603 High Loss Inductor	CTF1410	R 204	RS1/10S472J
L 651 High Loss Inductor	CTF1410	R 205	RS1/10S223J
L 652 Inductor	CTF1295	R 206	RS1/10S223J
L 671 Inductor	CTF1295	R 207	RS1/10S331J
L 801 High Loss Inductor	CTF1410	R 208	RS1/10S331J
L 961 Ferri-Inductor	LAU2R2K	R 209	RS1/10S331J

DEX-PIR,DEH-P946,DEX-PI

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 210	RS1/10S331J	R 603	RS1/10S223J
R 227 (RN1/10SE4702D)	GGC1316	R 604	RS1/10S473J
R 228 (RN1/10SE4702D)	GGC1316	R 605	RS1/10S473J
R 229	RS1/16S102J	R 606	RS1/10S473J
R 231	RS1/10S821J	R 607	RS1/10S473J
R 232	RS1/10S821J	R 608	RS1/10S473J
R 233	RS1/10S821J	R 609	RS1/16S473J
R 234	RS1/10S821J	R 610	RS1/10S102J
R 235	RS1/10S821J	R 611	RS1/10S473J
R 236	RS1/10S821J	R 612	RS1/10S473J
R 237	RS1/10S113J	R 613	RS1/10S681J
R 238	RS1/10S113J	R 614	RS1/10S473J
R 239	RS1/10S113J	R 617	RS1/10S221J
R 240	RS1/10S113J	R 618	RS1/10S221J
R 241	RS1/10S113J	R 619	RS1/10S221J
R 242	RS1/10S113J	R 620	RS1/10S221J
R 251	RS1/8S122J	R 621	RS1/10S221J
R 252	RS1/10S122J	R 622	RS1/10S682J
R 261	RS1/10S223J	R 623	RS1/10S682J
R 262	RS1/10S102J	R 624	RS1/10S682J
R 401	RS1/10S102J	R 625	RS1/10S682J
R 402	RS1/10S103J	R 626	RS1/10S473J
R 403	RS1/10S510J	R 627	RS1/10S393J
R 404	RS1/10S152J	R 629	RS1/16S473J
R 405	RS1/10S472J	R 630	RS1/10S473J
R 406	RS1/10S472J	R 631	RS1/10S102J
R 407	RS1/10S102J	R 632	RS1/10S202J
R 409	RS1/10S472J	R 634	RS1/10S473J
R 410	RS1/10S182J	R 635	RS1/10S473J
R 411	RS1/10S103J	R 636	RA3C681J
R 412	RS1/10S0R0J	R 637	RS1/10S473J
R 413	RS1/10S152J	R 638	RS1/10S473J
R 414	RS1/10S392J	R 639	RS1/10S473J
R 415	RS1/10S392J	R 640	RS1/10S473J
R 416	RS1/10S102J	R 641	RS1/10S473J
R 417	RS1/10S0R0J	R 642	RS1/10S102J
R 418	RS1/10S222J	R 644	RS1/10S473J
R 419	RS1/10S472J	R 645	RS1/10S473J
R 420	RS1/10S562J	R 646	RS1/10S473J
R 421	RS1/10S222J	R 647	RS1/10S473J
R 422	RS1/10S102J	R 649	RS1/10S221J
R 424	RS1/10S222J	R 650	RS1/10S682J
R 455	RS1/10S0R0J	R 655	RS1/10S222J
R 501	RS1/10S681J	R 656	RS1/10S222J
R 503	RS1/10S681J	R 657	RS1/10S473J
R 504	RS1/10S105J	R 658	RS1/10S473J
R 505	RS1/10S102J	R 659 (RN1/10SE9102D)	GGC1317
R 506	RS1/16S681J	R 662	RS1/10S222J
R 507	RS1/10S222J	R 663	RS1/10S473J
R 508	RS1/10S473J	R 664	RS1/10S103J
R 509	RS1/10S473J	R 665 (RN1/10SE2402D)	GGC1318
R 510	RS1/10S681J	R 671	RS1/10S681J
R 511	RS1/10S681J	R 672	RS1/10S102J
R 512	RS1/10S681J	R 673	RS1/10S102J
R 513	RS1/10S681J	R 674	RS1/10S102J
R 514	RS1/10S681J	R 675	RS1/10S681J
R 515	RS1/10S473J	R 676	RS1/10S681J
R 516	RS1/10S473J	R 677	RS1/10S681J
R 517	RS1/10S473J	R 678	RS1/10S681J
R 518	RS1/10S473J	R 681	RS1/8S102J
R 519	RS1/10S473J	R 682	RS1/8S102J
R 520	RS1/10S473J	R 683	RS1/10S103J
R 551	RS1/10S471J	R 684	RS1/10S103J
R 553	RS1/10S102J	R 685	RS1/10S103J
R 554	RS1/10S102J	R 686	RS1/10S103J
R 555	RS1/10S102J	R 687	RS1/10S223J
R 565	RS1/10S0R0J	R 688	RS1/10S223J
R 566	RD1/4PU151J	R 689	RS1/10S223J
R 601	RS1/10S473J	R 690	RS1/10S272J
R 602	RS1/10S473J	R 691	RS1/10S223J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 692	RS1/10S272J	CAPACITORS	
R 693	RS1/10S223J		
R 694	RS1/10S272J	C 101	CKSQYB104K16
R 695	RS1/10S473J	C 102	CKSQYB104K16
R 696	RS1/10S473J	C 103	CEJA1R0M50
		C 104	CEJA1R0M50
		C 105	CEJA100M16
R 697	RS1/10S473J		
R 698	RS1/8S331J		
R 700	RS1/10S274J	C 106	CEJA100M16
R 801	RD1/4PU102J	C 107	CEJA1R0M50
R 802	RS1/8S103J	C 108	CEJA1R0M50
		C 109	CKSQYB102K50
		C 131	CKSQYB681K50
R 803	RS1/10S224J		
R 804	RS1/10S222J		
R 805	RD1/4PU102J	C 132	CEJA101M10
R 806	RS1/10S104J	C 141	CCSQCH101J50
R 807	RS1/10S222J	C 151	CKSQYB473K50
		C 152	CKSQYB473K50
		C 171	CEJA1R0M50
R 809	RS1/10S1R0J		
R 810	RS1/10S103J		
R 811	RS1/10S104J	C 172	CEJA1R0M50
R 815	RS1/10S222J	C 173	CEV4R7M25
R 816	RS1/8S222J	C 174	CEV4R7M25
		C 175	CCSQCH820J50
		C 176	CCSQCH820J50
R 817	RS1/10S222J		
R 818	RS1/8S222J		
R 819	RS1/8S103J	C 177	CCSQCH390J50
R 820	RS2PMF330J	C 178	CCSQCH390J50
R 821	RS1/8S472J	C 179	CCSQCH390J50
		C 180	CCSQCH390J50
		C 182	CEJA1R0M50
R 830	RS1/10S102J		
R 851	RD1/4PU561J		
R 852	RS1/10S102J	C 183	CEJA220M6R3
R 853	RS1/10S102J	C 184	CEJA101M10
R 854	RS1/10S102J	C 185	CEJA100M16
		C 186	CKSQYB223K50
		C 201	CEJA4R7M35
R 855	RS1/10S102J		
R 856	RS1/10S473J		
R 857	RS1/10S473J	C 202	CEJA4R7M35
R 859	RS1/10S0R0J	C 203	CEJA100M16
R 871	RS1/10S102J	C 204	CEJA100M16
		C 205	CKSQYB104K16
		C 206	CKSQYB104K16
R 872	RD1/4PU102J		
R 873	RS1/10S473J		
R 911	RS1/8S0R0J	C 207	CEJA100M16
R 912	RS1/10S392J	C 208	CEJA100M16
R 913	RS1/10S752J	C 217	CCSQCH221J50
		C 218	CCSQCH101J50
		C 227	CKSQYB103K50
R 921	RS1/10S472J		
R 922	RD1/4PU221J		
R 923	RD1/4PU221J	C 229	CEJANP100M10
R 931	RS1/10S472J	C 230	CKSYB475K10
R 932	RD1/4PU221J	C 231	CEZA4R7M25
		C 232	CEZA4R7M25
		C 233	CEZA4R7M25
R 933	RD1/4PU221J		
R 941	RS1/10S102J		
R 942	RS1/10S102J	C 234	CEZA4R7M25
R 943	RS1/10S472J	C 235	CEZA100M16
R 951	RS1/10S103J	C 236	CEZA100M16
		C 237	CCSQCH221J50
		C 238	CCSQCH221J50
R 952	RS1/10S103J		
R 953	RS1/10S473J		
R 954	RS1/10S472J	C 239	CCSQCH221J50
R 955	RS1/10S473J	C 240	CCSQCH221J50
R 956	RS1/10S103J	C 241	CCSQCH221J50
		C 242	CCSQCH221J50
		C 307	CKSQYB104K16
R 961	RS1/8S153J		
R 962	RS1/10S472J		
R 963	RS1/10S472J	C 308	CCH1125
R 964	RS1/10S102J	C 351	CCSQCH221J50
R 971	RS1/10S822J	C 352	CCSQCH101J50
		C 353	CKSYB475K10
		C 401	CKSQYB103K50
R 973	RS1/10S102J		
R 974	RS1/10S473J		
R 975	RS1/10S472J	C 402	CKSQYB103K50
R 991	RD1/4PU221J	C 403	CKSQYB103K50
R 992	RS1/10S221J	C 404	CKSQYB103K50
		C 405	CEV220M10
R 993	RS1/10S472J	C 406	CKSQYB103K50
R 994	RS1/10S222J		

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
C 407	CEV220M10	C 853	CKSQYB102K50
C 408	CKSQYB103K50	C 854	CCSQCH101J50
C 409	CKSQYB103K50	C 855	CCSQCH101J50
C 410	CEV220M6R3	C 856	CKSQYB102K50
C 411	CKSQYB103K50	C 871	470μF/16V CCH1183
C 412	CKSQYB154K16	C 872	CEZA100M16
C 414	CKSQYB103K50	C 873	CKSQYB103K50
C 416	CKLSR473K16	C 874	CKSQYB102K50
C 417	4.7μF/16V CCH1250	C 876	CASA4R7M10
C 418	CKSQYB103K50	C 911	1500μF/16V CCH1312
C 420	CCSQCH150J50	C 912	CKSQYB472K50
C 421	CCSQCH150J50	C 913	CKSQYB103K50
C 422	CKSQYB103K50	C 914	CASA470M10
C 423	CKSQYB103K50	C 921	CKSQYB103K50
C 424	CCSQCH101J50	C 941	CKSQYB102K50
C 425	CKSQYB473K16	C 942	330μF/10V CCH1181
C 426	CEV220M6R3	C 943	CEZA470M25
C 427	CKSQYB103K50	C 944	CEJA1R0M50
C 428	CKSQYB103K50	C 945	CEJA101M10
C 430	CKSQYB103K50	C 946	CEJA470M10
C 433	CKSQYB103K50	C 947	CKSQYB102K50
C 434	CKSQYB223K50	C 951	CKSQYB105K10
C 435	CKSQYB223K50	C 952	CCSQCH101J50
C 501	CEJA100M16	C 971	CEJA2R2M50
C 502	CKSQYB103K50	C 972	CKSQYB102K50
C 503	CCSQCH270J50	C 973	CKSQYB104K16
C 504	CCSQCH270J50	C 991	CKSQYB473K16
C 505	CKSYB475K10	C 992	CKSQYB102K50
C 506	CCSQCH101J50	C 993	CEJA101M10
C 553	CKSQYB102K50		
C 556	CKSQYB472K50		
C 557	CKSQYB104K16		
C 558	CKSQYB105K10		
C 561	CCSQCH101J50		
C 562	CEJA100M16		
C 581	CEJA100M16		
C 582	CKSQYB102K50		
C 601	CCSQCH200J50		
C 602	CCSQCH200J50		
C 603	CCSQCH101J50		
C 604	CEJA101M10		
C 605	CKSQYB103K50		
C 606	CCSQCH101J50		
C 607	CCSQCH101J50		
C 608	CCSQCH101J50		
C 609	CEJA100M16		
C 610	CKSQYB104K16		
C 615	CCSQCH101J50		
C 617	CCSQCH101J50		
C 618	CCSQCH101J50		
C 619	CCSQCH101J50		
C 620	CCSRCH101J50		
C 651	CKSYB475K10		
C 653	CKSQYB102K50		
C 654	CKSQYB104K16		
C 671	CKSQYB103K50		
C 672	CEZA100M16		
C 681	CKSQYB473K16		
C 682	CKSQYB473K16		
C 683	CKSQYB103K50		
C 684	CKSQYB103K50		
C 685	CKSQYB103K50		
C 686	CKSQYB473K16		
C 803	CKSQYB103K50		
C 806	CKSYB475K10		
C 807	CCSQCH101J50		
C 808	CEJA101M16		
C 809	CCSQCH101J50		
C 851	CKSQYB103K50		
C 852	CKSYB475K10		

A Unit Number : CWM5697(DEH-P946/ES)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 101	IC	CA0008AM
IC 102	IC	TA2050S
IC 171	IC	BA3131FS
IC 301	IC	TDA7386
IC 401	IC	PM2006A
IC 601	IC	PD4906A
IC 651	IC	PD4931A
IC 671	IC	PD0236AM
IC 851	IC	BA6288FS
IC 871	IC	NJM78M05FA
IC 941	IC	PA2024A
IC 971	IC	S-80730ANDT
Q 101	Transistor	2SA1162
Q 102	Transistor	UN2212
Q 131	Transistor	2SC2712
Q 132	Transistor	IMD2A
Q 171	Transistor	DTC314TK
Q 172	Transistor	DTC314TK
Q 231	Transistor	FMG13
Q 232	Transistor	FMG13
Q 233	Transistor	FMG13
Q 261	Transistor	IMD2A
Q 301	Transistor	UN2212
Q 302	Transistor	UN2212
Q 401	Transistor	2SC2712
Q 601	Transistor	UN2111
Q 602	Transistor	UN2211
Q 651	Transistor	UN2112
Q 681	Transistor	2SA1162
Q 682	Transistor	UN2212
Q 683	Transistor	2SC2712
Q 684	Transistor	2SC2712
Q 685	Transistor	2SC2712
Q 802	Transistor	2SC2712
Q 803	Transistor	UN2211

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
Q 804 Transistor	2SD1760F5	L 652 Inductor	CTF1295
Q 805 Transistor	UN2111	L 671 Inductor	CTF1295
Q 806 Transistor	2SB1238	L 801 High Loss Inductor	CTF1410
Q 807 Transistor	2SB1238	L 961 Ferri-Inductor	LAU2R2K
Q 808 Transistor	DTC143EK	TH 651 Thermistor	CCX1037
Q 810 Transistor	2SC2712	X 401 Crystal Resonator 7.200MHz	CSS1379
Q 811 Transistor	2SC2712	X 601 Resonator 12.58291MHz	CSS1402
Q 812 Transistor	DTA144EK	X 651 Resonator 4.19MHz	CSS1436
Q 851 Transistor	2SD1760F5	S 601 Slide Switch(PRO/STD)	CSH1048
Q 852 Transistor	UN2111	IL 801 Lamp 14V40mA	CEL1359
Q 853 Transistor	UN2212		DSP Unit
Q 871 Transistor	2SB1238		FM/AM Tuner Unit
Q 872 Transistor	DTC123EK	BZ 601 Buzzer	CWV2213
Q 911 Transistor	2SD1760F5	FU 801 IC Protector 0.4A	CWE1485
Q 913 Transistor	IMD2A		CPV1012
			ICP-N10
Q 921 Transistor	2SB1243	RESISTORS	
Q 922 Transistor	UN2212	R 101	RS1/10S620J
Q 931 Transistor	2SB1243	R 102	RS1/10S101J
Q 932 Transistor	UN2212	R 103	RS1/10S101J
Q 951 Transistor	UN2211	R 104	RS1/10S222J
		R 105	RS1/10S103J
Q 952 Transistor	IMX1		
Q 961 Transistor	2SA1162	R 106	RS1/10S102J
Q 971 Transistor	2SC2712	R 107	RS1/10S102J
Q 991 Transistor	IMD2A	R 108	RS1/10S473J
Q 992 Transistor	2SD2396	R 109	RS1/10S473J
		R 110	RS1/10S223J
D 131 Diode	MA3039(L)		
D 231 Diode	MA152WA	R 111	RS1/10S181J
D 232 Diode	MA152WA	R 112	RS1/10S102J
D 233 Diode	MA152WA	R 113	RS1/10S102J
D 261 Diode	MA152WK	R 114	RS1/10S181J
		R 115	RS1/10S223J
D 262 Diode	MA152WK		
D 263 Diode	MA152WK	R 116	RS1/10S332J
D 401 Diode	MA152WK	R 117	RS1/10S562J
D 803 Diode	MA3062(M)	R 118	RS1/10S472J
D 804 Diode	DA204K	R 131	RS1/10S103J
		R 132	RS1/10S223J
D 805 Diode	DA204K		
D 806 Diode	DA204K	R 133	RS1/10S473J
D 807 Diode	DA204K	R 134	RS1/10S104J
D 808 Diode	MA3062(M)	R 135	RS1/10S222J
D 809 Diode	DA204K	R 136	RS1/10S561J
		R 151	RS1/10S162J
D 810 Diode	ERA15-02VH		
D 851 Diode	MA3075(H)	R 152	RS1/10S162J
D 852 Diode	1SS133	R 153	RS1/10S0R0J
D 853 Diode	1SS133	R 154	RS1/10S0R0J
D 871 Diode	MA152WK	R 171	RS1/10S393J
		R 172	RS1/10S393J
D 901 Diode	ERA15-02VH		
D 902 Diode	ERA15-02VH	R 173	RS1/10S752J
D 911 Diode	HZS6L(B1)	R 174	RS1/10S752J
D 912 Diode	ERA15-02VH	R 175	RS1/10S222J
D 921 Diode	ERA15-02VH	R 176	RS1/10S222J
		R 177	RS1/10S473J
D 922 Diode	ERA15-02VH		
D 931 Diode	ERA15-02VH	R 178	RS1/10S473J
D 932 Diode	ERA15-02VH	R 179	RS1/10S513J
D 951 Diode	ERA15-02VH	R 180	RS1/10S513J
D 952 Diode	HZS7L(C3)	R 181	RS1/10S563J
		R 182	RS1/10S563J
D 953 Diode	HZS7L(A1)		
D 961 Diode	MA152WK	R 184	RS1/10S103J
D 971 Diode	MA152WK	R 185	RS1/10S224J
D 991 Diode	HZS9L(B1)	R 186	RS1/10S102J
L 101 Inductor	LAU3R3K	R 187	RS1/10S102J
		R 189	RS1/10S104J
L 141 Inductor	CTF1420		
L 221 Inductor	CTF1295	R 190	RS1/10S104J
L 222 Inductor	LCTB2R2K2125	R 201	RS1/10S472J
L 223 Ferri-Inductor	LAU1R0M	R 202	RS1/10S472J
L 401 Ferri-Inductor	LAU2R2K	R 203	RS1/10S472J
		R 204	RS1/10S472J
L 403 Inductor	LAU2R2K		
L 601 High Loss Inductor	CTF1410	R 205	RS1/10S223J
L 602 High Loss Inductor	CTF1410	R 206	RS1/10S223J
L 603 High Loss Inductor	CTF1410	R 207	RS1/10S331J
L 651 High Loss Inductor	CTF1410	R 208	RS1/10S331J
		R 209	RS1/10S331J

DEX-PIR,DEH-P946,DEX-PI

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 210	RS1/10S331J	R 635	RS1/10S473J
R 227 (RN1/10SE4702D)	GGC1316	R 636	RA3C681J
R 228 (RN1/10SE4702D)	GGC1316	R 637	RS1/10S473J
R 229	RS1/16S102J	R 638	RS1/10S473J
R 231	RS1/10S821J	R 640	RS1/10S473J
R 232	RS1/10S821J	R 641	RS1/10S473J
R 233	RS1/10S821J	R 642	RS1/10S102J
R 234	RS1/10S821J	R 644	RS1/10S473J
R 235	RS1/10S821J	R 645	RS1/10S473J
R 236	RS1/10S821J	R 646	RS1/10S473J
R 237	RS1/10S223J	R 647	RS1/10S473J
R 238	RS1/10S223J	R 648	RS1/10S473J
R 239	RS1/10S223J	R 649	RS1/10S221J
R 240	RS1/10S223J	R 650	RS1/10S682J
R 241	RS1/10S223J	R 655	RS1/10S222J
R 242	RS1/10S223J	R 656	RS1/10S222J
R 261	RS1/10S223J	R 657	RS1/10S473J
R 262	RS1/10S102J	R 658	RS1/10S473J
R 301	RS1/10S103J	R 659 (RN1/10SE9102D)	GGC1317
R 302	RS1/10S331J	R 662	RS1/10S222J
R 303	RS1/10S103J	R 663	RS1/10S473J
R 304	RS1/10S103J	R 664	RS1/10S103J
R 401	RS1/10S102J	R 665 (RN1/10SE2402D)	GGC1318
R 402	RS1/10S103J	R 671	RS1/10S681J
R 403	RS1/10S510J	R 672	RS1/10S102J
R 404	RS1/10S152J	R 673	RS1/10S102J
R 405	RS1/10S472J	R 674	RS1/10S102J
R 406	RS1/10S472J	R 675	RS1/10S681J
R 407	RS1/10S102J	R 676	RS1/10S681J
R 409	RS1/10S472J	R 677	RS1/10S681J
R 410	RS1/10S182J	R 678	RS1/10S681J
R 411	RS1/10S103J	R 681	RS1/8S102J
R 412	RS1/10S0R0J	R 682	RS1/8S102J
R 413	RS1/10S152J	R 683	RS1/8S102J
R 414	RS1/10S392J	R 685	RS1/10S103J
R 415	RS1/10S392J	R 686	RS1/10S103J
R 416	RS1/10S102J	R 687	RS1/10S223J
R 418	RS1/10S222J	R 688	RS1/10S223J
R 419	RS1/10S222J	R 689	RS1/10S223J
R 420	RS1/10S562J	R 690	RS1/10S272J
R 421	RS1/10S222J	R 691	RS1/10S223J
R 422	RS1/10S102J	R 692	RS1/10S272J
R 424	RS1/10S222J	R 693	RS1/10S223J
R 430	RS1/10S182J	R 694	RS1/10S272J
R 455	RS1/10S0R0J	R 695	RS1/10S473J
R 601	RS1/10S473J	R 696	RS1/10S473J
R 602	RS1/10S473J	R 697	RS1/10S473J
R 603	RS1/10S223J	R 698	RS1/8S331J
R 607	RS1/10S473J	R 700	RS1/10S274J
R 610	RS1/10S102J	R 801	RD1/4PU102J
R 611	RS1/10S473J	R 802	RS1/8S103J
R 612	RS1/10S473J	R 803	RS1/10S224J
R 613	RS1/10S681J	R 804	RS1/10S222J
R 614	RS1/10S473J	R 805	RD1/4PU102J
R 617	RS1/10S221J	R 806	RS1/10S104J
R 618	RS1/10S221J	R 807	RS1/10S222J
R 619	RS1/10S221J	R 809	RS1/10S1R0J
R 620	RS1/10S221J	R 810	RS1/10S103J
R 621	RS1/10S221J	R 811	RS1/10S104J
R 622	RS1/10S682J	R 815	RS1/10S222J
R 623	RS1/10S682J	R 816	RS1/8S222J
R 624	RS1/10S682J	R 817	RS1/10S222J
R 625	RS1/10S682J	R 818	RS1/8S222J
R 626	RS1/10S473J	R 819	RS1/8S103J
R 627	RS1/10S393J	R 820	RS2PMF330J
R 628	RS1/16S473J	R 821	RS1/8S472J
R 630	RS1/10S473J	R 830	RS1/10S102J
R 631	RS1/10S102J	R 851	RD1/4PU561J
R 632	RS1/10S202J	R 852	RS1/10S102J
R 634	RS1/10S473J	R 853	RS1/10S102J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 854	RS1/10S102J	C 202	CEJA4R7M35
R 855	RS1/10S102J	C 203	CEJA100M16
R 856	RS1/10S473J	C 204	CEJA100M16
R 857	RS1/10S473J	C 205	CKSQYB104K16
R 859	RS1/10S0R0J	C 206	CKSQYB104K16
R 871	RS1/10S102J	C 207	CEJA100M16
R 872	RD1/4PU102J	C 208	CEJA100M16
R 873	RS1/10S473J	C 217	CCSQCH221J50
R 911	RS1/8S0R0J	C 218	CCSQCH101J50
R 912	RS1/10S392J	C 227	CKSQYB103K50
R 913	RS1/10S752J	C 229	CEJANP100M10
R 921	RS1/10S472J	C 230	CKSYB475K10
R 922	RD1/4PU221J	C 231	CEJA4R7M35
R 923	RD1/4PU221J	C 232	CEJA4R7M35
R 931	RS1/10S472J	C 233	CEJA4R7M35
R 932	RD1/4PU221J	C 234	CEJA4R7M35
R 933	RD1/4PU221J	C 235	CEJA100M16
R 941	RS1/10S102J	C 236	CEJA100M16
R 942	RS1/10S102J	C 237	CCSQCH221J50
R 943	RS1/10S472J	C 238	CCSQCH221J50
R 951	RS1/10S103J	C 239	CCSQCH221J50
R 952	RS1/10S103J	C 240	CCSQCH221J50
R 953	RS1/10S473J	C 241	CCSQCH221J50
R 954	RS1/10S472J	C 242	CCSQCH221J50
R 955	RS1/10S473J	C 301	CKSYB224K16
R 956	RS1/10S103J	C 302	CKSYB224K16
R 961	RS1/8S153J	C 303	CKSYB224K16
R 962	RS1/10S472J	C 304	CKSYB224K16
R 963	RS1/10S472J	C 305	CKSYB105K16
R 964	RS1/10S102J	C 306	CEHAR100M16
R 971	RS1/10S822J	C 308	3300μF/16V CCH1125
R 973	RS1/10S102J	C 309	CEHAR010M50
R 974	RS1/10S473J	C 310	CEHAR330M10
R 975	RS1/10S472J	C 351	CCSQCH221J50
R 991	RD1/4PU221J	C 352	CCSQCH101J50
R 992	RS1/10S221J	C 353	CKSYB475K10
R 993	RS1/10S472J	C 401	CKSQYB103K50
R 994	RS1/10S222J	C 402	CKSQYB103K50
		C 403	CKSQYB103K50
		C 404	CKSQYB103K50
CAPACITORS			
C 101	CKSQYB104K16	C 405	CEV220M10
C 102	CKSQYB104K16	C 406	CKSQYB103K50
C 103	CEJA1R0M50	C 407	CEV220M10
C 104	CEJA1R0M50	C 408	CKSQYB103K50
C 105	CEJA100M16	C 409	CKSQYB103K50
C 106	CEJA100M16	C 410	CEV220M6R3
C 107	CEJA1R0M50	C 411	CKSQYB103K50
C 108	CEJA1R0M50	C 412	CKSQYB154K16
C 109	CKSQYB102K50	C 414	CKSQYB103K50
C 131	CKSQYB681K50	C 416	CKLSR473K16
C 132	CEJA101M10	C 417	4.7μF/16V CCH1250
C 141	CCSQCH101J50	C 418	CKSQYB103K50
C 151	CKSQYB473K50	C 420	CCSQCH150J50
C 152	CKSQYB473K50	C 421	CCSQCH150J50
C 171	CEJA1R0M50	C 422	CKSQYB103K50
C 172	CEJA1R0M50	C 423	CKSQYB103K50
C 173	CEV4R7M25	C 424	CCSQCH101J50
C 174	CEV4R7M25	C 425	CKSQYB473K16
C 175	CCSQCH820J50	C 426	CEV220M6R3
C 176	CCSQCH820J50	C 427	CKSQYB103K50
C 177	CCSQCH390J50	C 428	CKSQYB103K50
C 178	CCSQCH390J50	C 430	CKSQYB103K50
C 179	CCSQCH390J50	C 432	CKSQYB103K50
C 180	CCSQCH390J50	C 433	CKSQYB103K50
C 182	CEJA1R0M50	C 434	CKSQYB223K50
C 183	CEJA220M6R3	C 435	CKSQYB223K50
C 184	CEJA101M10	C 601	CCSQCH200J50
C 185	CEJA100M16	C 602	CCSQCH200J50
C 186	CKSQYB223K50	C 603	CCSQCH101J50
C 201	CEJA4R7M35	C 604	CEJA101M10

DEX-P1R,DEH-P946,DEX-P1

====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
C	605		CKSQYB103K50	IC	971	IC	S-80730ANDT
C	606		CCSQCH101J50	Q	101	Transistor	2SA1162
C	607		CCSQCH101J50	Q	102	Transistor	UN2212
C	608		CCSQCH101J50	Q	131	Transistor	2SC2712
C	609		CEJA100M16	Q	132	Transistor	IMD2A
C	610		CKSQYB104K16	Q	171	Transistor	DTC314TK
C	615		CCSQCH101J50	Q	172	Transistor	DTC314TK
C	617		CCSQCH101J50	Q	231	Transistor	FMG13
C	618		CCSQCH101J50	Q	232	Transistor	FMG13
C	619		CCSQCH101J50	Q	233	Transistor	FMG13
C	620		CCSRCH101J50	Q	251	Transistor	DTA143EK
C	651		CKSYB475K10	Q	252	Transistor	UN2211
C	653		CKSQYB102K50	Q	253	Transistor	IMD2A
C	654		CKSQYB104K16	Q	261	Transistor	IMD2A
C	671		CKSQYB103K50	Q	401	Transistor	2SC2712
C	672		CEJA100M16	Q	601	Transistor	UN2111
C	683		CKSQYB103K50	Q	602	Transistor	UN2211
C	684		CKSQYB103K50	Q	651	Transistor	UN2112
C	685		CKSQYB103K50	Q	681	Transistor	2SA1162
C	686		CKSQYB473K16	Q	682	Transistor	UN2212
C	803		CKSQYB103K50	Q	683	Transistor	2SC2712
C	806		CKSYB475K10	Q	684	Transistor	2SC2712
C	807		CCSQCH101J50	Q	685	Transistor	2SC2712
C	808		CEJA101M16	Q	802	Transistor	2SC2712
C	809		CCSQCH101J50	Q	803	Transistor	UN2211
C	851		CKSQYB103K50	Q	804	Transistor	2SD1760F5
C	852		CKSYB475K10	Q	805	Transistor	UN2111
C	853		CKSQYB102K50	Q	806	Transistor	2SB1238
C	854		CCSQCH101J50	Q	807	Transistor	2SB1238
C	855		CCSQCH101J50	Q	808	Transistor	DTC143EK
C	856		CKSQYB102K50	Q	810	Transistor	2SC2712
C	871	470μF/16V	CCH1183	Q	811	Transistor	2SC2712
C	872		CEJA100M16	Q	812	Transistor	DTA144EK
C	873		CKSQYB103K50	Q	851	Transistor	2SD1760F5
C	874		CKSQYB102K50	Q	852	Transistor	UN2111
C	876		CASA4R7M10	Q	853	Transistor	UN2212
C	911	1500μF/16V	CCH1312	Q	871	Transistor	2SB1238
C	912		CKSQYB472K50	Q	872	Transistor	DTC123EK
C	913		CKSQYB103K50	Q	911	Transistor	2SD1760F5
C	914		CASA470M10	Q	913	Transistor	IMD2A
C	921		CKSQYB103K50	Q	921	Transistor	2SB1243
C	941		CKSQYB102K50	Q	922	Transistor	UN2212
C	942	330μF/10V	CCH1181	Q	931	Transistor	2SB1243
C	943		CEJA470M10	Q	932	Transistor	UN2212
C	944		CEJA1R0M50	Q	951	Transistor	UN2211
C	945		CEJA101M10	Q	952	Transistor	IMX1
C	946		CEJA470M10	Q	961	Transistor	2SA1162
C	947		CKSQYB102K50	Q	971	Transistor	2SC2712
C	951		CKSQYB105K10	Q	991	Transistor	IMD2A
C	952		CCSQCH101J50	Q	992	Transistor	2SD2396
C	971		CEJA2R2M50	D	131	Diode	MA3039(L)
C	972		CKSQYB102K50	D	231	Diode	MA152WA
C	973		CKSQYB104K16	D	232	Diode	MA152WA
C	991		CKSQYB473K16	D	233	Diode	MA152WA
C	992		CKSQYB102K50	D	261	Diode	MA152WK
C	993		CEJA101M10	D	262	Diode	MA152WK
				D	263	Diode	MA152WK
				D	401	Diode	MA152WK
				D	803	Diode	MA3062(M)
				D	804	Diode	DA204K
				D	805	Diode	DA204K
				D	806	Diode	DA204K
				D	807	Diode	DA204K
				D	808	Diode	MA3062(M)
				D	809	Diode	DA204K
				D	810	Diode	ERA15-02VH
				D	851	Diode	MA3075(H)
				D	852	Diode	1SS133
				D	853	Diode	1SS133
				D	871	Diode	MA152WK

A Unit Number : CWM5699(DEX-P1/ES)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC	101	IC	CA0008AM
IC	102	IC	TA2050S
IC	171	IC	BA3131FS
IC	401	IC	PM2006A
IC	601	IC	PD4906A
IC	651	IC	PD4931A
IC	671	IC	PD0236AM
IC	851	IC	BA6288FS
IC	871	IC	NJM78M05FA
IC	941	IC	PA2024A

====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
D	901	Diode	ERA15-02VH	R	173		RS1/10S752J
D	902	Diode	ERA15-02VH	R	174		RS1/10S752J
D	911	Diode	HZS6L(B1)	R	175		RS1/10S222J
D	912	Diode	ERA15-02VH	R	176		RS1/10S222J
D	921	Diode	ERA15-02VH	R	177		RS1/10S473J
D	922	Diode	ERA15-02VH	R	178		RS1/10S473J
D	931	Diode	ERA15-02VH	R	179		RS1/10S513J
D	932	Diode	ERA15-02VH	R	180		RS1/10S513J
D	951	Diode	ERA15-02VH	R	181		RS1/10S563J
D	952	Diode	HZS7L(C3)	R	182		RS1/10S563J
D	953	Diode	HZS7L(A1)	R	184		RS1/10S103J
D	961	Diode	MA152WK	R	185		RS1/10S224J
D	971	Diode	MA152WK	R	186		RS1/10S102J
D	991	Diode	HZS9L(B1)	R	187		RS1/10S102J
L	101	Inductor	LAU3R3K	R	189		RS1/10S104J
L	141	Inductor	CTF1420	R	190		RS1/10S104J
L	221	Inductor	CTF1295	R	201		RS1/10S472J
L	222	Inductor	LCTB2R2K2125	R	202		RS1/10S472J
L	223	Ferri-Inductor	LAU1R0M	R	203		RS1/10S472J
L	401	Ferri-Inductor	LAU2R2K	R	204		RS1/10S472J
L	403	Inductor	LAU2R2K	R	205		RS1/10S223J
L	601	High Loss Inductor	CTF1410	R	206		RS1/10S223J
L	602	High Loss Inductor	CTF1410	R	207		RS1/10S331J
L	603	High Loss Inductor	CTF1410	R	208		RS1/10S331J
L	651	High Loss Inductor	CTF1410	R	209		RS1/10S331J
L	652	Inductor	CTF1295	R	210		RS1/10S331J
L	671	Inductor	CTF1295	R	227	(RN1/10SE4702D)	GGC1316
L	801	High Loss Inductor	CTF1410	R	228	(RN1/10SE4702D)	GGC1316
L	961	Ferri-Inductor	LAU2R2K	R	229		RS1/16S102J
TH	651	Thermistor	CCX1037	R	231		RS1/10S821J
X	401	Crystal Resonator 7.200MHz	CSS1379	R	232		RS1/10S821J
X	601	Resonator 12.58291MHz	CSS1402	R	233		RS1/10S821J
X	651	Resonator 4.19MHz	CSS1436	R	234		RS1/10S821J
S	601	Slide Switch(PRO/STD)	CSH1048	R	235		RS1/10S821J
IL	801	Lamp 14V40mA	CEL1359	R	236		RS1/10S821J
		High Out Unit	CWX2215	R	237		RS1/10S113J
		DSP Unit	CWX2213	R	238		RS1/10S113J
		FM/AM Tuner Unit	CWE1485	R	239		RS1/10S113J
BZ	601	Buzzer	CPV1012	R	240		RS1/10S113J
FU	801	IC Protector 0.4A	ICP-N10	R	241		RS1/10S113J
RESISTORS				R	242		RS1/10S113J
R	101		RS1/10S620J	R	251		RS1/8S122J
R	102		RS1/10S101J	R	252		RS1/10S122J
R	103		RS1/10S101J	R	261		RS1/10S223J
R	104		RS1/10S222J	R	262		RS1/10S102J
R	105		RS1/10S103J	R	401		RS1/10S102J
R	106		RS1/10S102J	R	402		RS1/10S103J
R	107		RS1/10S102J	R	403		RS1/10S510J
R	108		RS1/10S473J	R	404		RS1/10S152J
R	109		RS1/10S473J	R	405		RS1/10S472J
R	110		RS1/10S223J	R	406		RS1/10S472J
R	111		RS1/10S181J	R	407		RS1/10S102J
R	112		RS1/10S102J	R	409		RS1/10S472J
R	113		RS1/10S102J	R	410		RS1/10S182J
R	114		RS1/10S181J	R	411		RS1/10S103J
R	115		RS1/10S223J	R	412		RS1/10S0R0J
R	116		RS1/10S332J	R	413		RS1/10S152J
R	117		RS1/10S562J	R	414		RS1/10S392J
R	118		RS1/10S472J	R	415		RS1/10S392J
R	131		RS1/10S103J	R	416		RS1/10S102J
R	132		RS1/10S223J	R	418		RS1/10S222J
R	133		RS1/10S473J	R	419		RS1/10S222J
R	134		RS1/10S104J	R	420		RS1/10S562J
R	135		RS1/10S222J	R	421		RS1/10S222J
R	136		RS1/10S561J	R	422		RS1/10S102J
R	151		RS1/10S162J	R	424		RS1/10S222J
R	152		RS1/10S162J	R	430		RS1/10S182J
R	153		RS1/10S0R0J	R	455		RS1/10S0R0J
R	154		RS1/10S0R0J	R	601		RS1/10S473J
R	171		RS1/10S393J	R	602		RS1/10S473J
R	172		RS1/10S393J				

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 603	RS1/10S223J	R 698	RS1/8S331J
R 607	RS1/10S473J	R 700	RS1/10S274J
R 610	RS1/10S102J	R 801	RD1/4PU102J
R 611	RS1/10S473J	R 802	RS1/8S103J
R 612	RS1/10S473J	R 803	RS1/10S224J
R 613	RS1/10S681J	R 804	RS1/10S222J
R 614	RS1/10S473J	R 805	RD1/4PU102J
R 617	RS1/10S221J	R 806	RS1/10S104J
R 618	RS1/10S221J	R 807	RS1/10S222J
R 619	RS1/10S221J	R 809	RS1/10S1R0J
R 620	RS1/10S221J	R 810	RS1/10S103J
R 621	RS1/10S221J	R 811	RS1/10S104J
R 622	RS1/10S682J	R 815	RS1/10S222J
R 623	RS1/10S682J	R 816	RS1/8S222J
R 624	RS1/10S682J	R 817	RS1/10S222J
R 625	RS1/10S682J	R 818	RS1/8S222J
R 626	RS1/10S473J	R 819	RS1/8S103J
R 627	RS1/10S393J	R 820	RS2PMF330J
R 629	RS1/16S473J	R 821	RS1/8S472J
R 630	RS1/10S473J	R 830	RS1/10S102J
R 631	RS1/10S102J	R 851	RD1/4PU561J
R 632	RS1/10S202J	R 852	RS1/10S102J
R 634	RS1/10S473J	R 853	RS1/10S102J
R 635	RS1/10S473J	R 854	RS1/10S102J
R 636	RA3C681J	R 855	RS1/10S102J
R 637	RS1/10S473J	R 856	RS1/10S473J
R 638	RS1/10S473J	R 857	RS1/10S473J
R 640	RS1/10S473J	R 859	RS1/10S0R0J
R 641	RS1/10S473J	R 871	RS1/10S102J
R 642	RS1/10S102J	R 872	RD1/4PU102J
R 644	RS1/10S473J	R 873	RS1/10S473J
R 645	RS1/10S473J	R 911	RS1/8S0R0J
R 646	RS1/10S473J	R 912	RS1/10S392J
R 647	RS1/10S473J	R 913	RS1/10S752J
R 648	RS1/10S473J	R 921	RS1/10S472J
R 649	RS1/10S221J	R 922	RD1/4PU221J
R 650	RS1/10S682J	R 923	RD1/4PU221J
R 655	RS1/10S222J	R 931	RS1/10S472J
R 656	RS1/10S222J	R 932	RD1/4PU221J
R 657	RS1/10S473J	R 933	RD1/4PU221J
R 658	RS1/10S473J	R 941	RS1/10S102J
R 659 (RN1/10SE9102D)	GGC1317	R 942	RS1/10S102J
R 662	RS1/10S222J	R 943	RS1/10S472J
R 663	RS1/10S473J	R 951	RS1/10S103J
R 664	RS1/10S103J	R 952	RS1/10S103J
R 665 (RN1/10SE2402D)	GGC1318	R 953	RS1/10S473J
R 671	RS1/10S681J	R 954	RS1/10S472J
R 672	RS1/10S102J	R 955	RS1/10S473J
R 673	RS1/10S102J	R 956	RS1/10S103J
R 674	RS1/10S102J	R 961	RS1/8S153J
R 675	RS1/10S681J	R 962	RS1/10S472J
R 676	RS1/10S681J	R 963	RS1/10S472J
R 677	RS1/10S681J	R 964	RS1/10S102J
R 678	RS1/10S681J	R 971	RS1/10S822J
R 681	RS1/8S102J	R 973	RS1/10S102J
R 682	RS1/8S102J	R 974	RS1/10S473J
R 683	RS1/8S102J	R 975	RS1/10S472J
R 685	RS1/10S103J	R 991	RD1/4PU221J
R 686	RS1/10S103J	R 992	RS1/10S221J
R 687	RS1/10S223J	R 993	RS1/10S472J
R 688	RS1/10S223J	R 994	RS1/10S222J
R 689	RS1/10S223J		
R 690	RS1/10S272J		
R 691	RS1/10S223J		
R 692	RS1/10S272J		
R 693	RS1/10S223J		
R 694	RS1/10S272J		
R 695	RS1/10S473J		
R 696	RS1/10S473J		
R 697	RS1/10S473J		

CAPACITORS

C 101	CKSQYB104K16
C 102	CKSQYB104K16
C 103	CEJA1R0M50
C 104	CEJA1R0M50
C 105	CEJA100M16

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
C 106	CEJA100M16	C 420	CCSQCH150J50
C 107	CEJA1R0M50	C 421	CCSQCH150J50
C 108	CEJA1R0M50	C 422	CKSQYB103K50
C 109	CKSQYB102K50	C 423	CKSQYB103K50
C 131	CKSQYB681K50	C 424	CCSQCH101J50
C 132	CEJA101M10	C 425	CKSQYB473K16
C 141	CCSQCH101J50	C 426	CEV220M6R3
C 151	CKSQYB473K50	C 427	CKSQYB103K50
C 152	CKSQYB473K50	C 428	CKSQYB103K50
C 171	CEJA1R0M50	C 430	CKSQYB103K50
C 172	CEJA1R0M50	C 432	CKSQYB103K50
C 173	CEV4R7M25	C 433	CKSQYB103K50
C 174	CEV4R7M25	C 434	CKSQYB223K50
C 175	CCSQCH820J50	C 435	CKSQYB223K50
C 176	CCSQCH820J50	C 601	CCSQCH200J50
C 177	CCSQCH390J50	C 602	CCSQCH200J50
C 178	CCSQCH390J50	C 603	CCSQCH101J50
C 179	CCSQCH390J50	C 604	CEJA101M10
C 180	CCSQCH390J50	C 605	CKSQYB103K50
C 182	CEJA1R0M50	C 606	CCSQCH101J50
C 183	CEJA220M6R3	C 607	CCSQCH101J50
C 184	CEJA101M10	C 608	CCSQCH101J50
C 185	CEJA100M16	C 609	CEJA100M16
C 186	CKSQYB223K50	C 610	CKSQYB104K16
C 201	CEJA4R7M35	C 615	CCSQCH101J50
C 202	CEJA4R7M35	C 617	CCSQCH101J50
C 203	CEJA100M16	C 618	CCSQCH101J50
C 204	CEJA100M16	C 619	CCSQCH101J50
C 205	CKSQYB104K16	C 620	CCSRCH101J50
C 206	CKSQYB104K16	C 651	CKSYB475K10
C 207	CEJA100M16	C 653	CKSQYB102K50
C 208	CEJA100M16	C 654	CKSQYB104K16
C 217	CCSQCH221J50	C 671	CKSQYB103K50
C 218	CCSQCH101J50	C 672	CEZA100M16
C 227	CKSQYB103K50	C 683	CKSQYB103K50
C 229	CEJANP100M10	C 684	CKSQYB103K50
C 230	CKSYB475K10	C 685	CKSQYB103K50
C 231	CEZA4R7M25	C 686	CKSQYB473K16
C 232	CEZA4R7M25	C 803	CKSQYB103K50
C 233	CEZA4R7M25	C 806	CKSYB475K10
C 234	CEZA4R7M25	C 807	CCSQCH101J50
C 235	CEZA100M16	C 808	CEJA101M16
C 236	CEZA100M16	C 809	CCSQCH101J50
C 237	CCSQCH221J50	C 851	CKSQYB103K50
C 238	CCSQCH221J50	C 852	CKSYB475K10
C 239	CCSQCH221J50	C 853	CKSQYB102K50
C 240	CCSQCH221J50	C 854	CCSQCH101J50
C 241	CCSQCH221J50	C 855	CCSQCH101J50
C 242	CCSQCH221J50	C 856	CKSQYB102K50
C 307	CKSQYB104K16	C 871	CCH1183
C 308	CCH1125	C 872	CEZA100M16
C 351	CCSQCH221J50	C 873	CKSQYB103K50
C 352	CCSQCH101J50	C 874	CKSQYB102K50
C 353	CKSYB475K10	C 876	CASA4R7M10
C 401	CKSQYB103K50	C 911	CCH1312
C 402	CKSQYB103K50	C 912	CKSQYB472K50
C 403	CKSQYB103K50	C 913	CKSQYB103K50
C 404	CKSQYB103K50	C 914	CASA470M10
C 405	CEV220M10	C 921	CKSQYB103K50
C 406	CKSQYB103K50	C 941	CKSQYB102K50
C 407	CEV220M10	C 942	CCH1181
C 408	CKSQYB103K50	C 943	CEZA470M25
C 409	CKSQYB103K50	C 944	CEJA1R0M50
C 410	CEV220M6R3	C 945	CEJA101M10
C 411	CKSQYB103K50	C 946	CEJA470M10
C 412	CKSQYB154K16	C 947	CKSQYB102K50
C 414	CKSQYB103K50	C 951	CKSQYB105K10
C 416	CKLSR473K16	C 952	CCSQCH101J50
C 417	CCH1250	C 971	CEJA2R2M50
C 418	CKSQYB103K50	C 972	CKSQYB102K50

DEX-P1R,DEH-P946,DEX-P1

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
C 973	CKSQYB104K16	R 1911	RS1/8S751J
C 991	CKSQYB473K16	R 1912	RS1/8S102J
C 992	CKSQYB102K50	R 1913	RS1/10S103J
C 993	CEJA101M10	R 1914	RS1/10S0R0J
		R 1916	RS1/8S751J
C Unit Number : CWM5686(DEX-P1R/UC)		R 1917	RS1/4S471J
Unit Number : CWM5689(DEH-P946/ES,DEX-P1/ES)		R 1918	RS1/10S103J
Unit Name : Keyboard Unit		R 1919	RS1/10S0R0J
		R 1921	RS1/4S471J
		R 1922	RS1/10S103J
MISCELLANEOUS			
IC 1901 HIC Module	RS-140		
IC 1902 IC	PD6237C	R 1923	RS1/10S0R0J
IC 1903 IC	SED1540F0A	R 1924	RS1/10S0R0J
IC 1904 IC	SED1526F0A	R 1927	RS1/10S473J
IC 1905 IC	SED1526F0A	R 1928	RS1/10S473J
		R 1929	RS1/10S473J
D 1901 Diode	MA153		
D 1902 Diode	MA153	R 1930	RS1/10S473J
D 1903 Diode	MA153	R 1931	RS1/16S470J
D 1904 Diode	MA152WA	R 1932	RS1/16S470J
D 1905 LED	CL170SBX	R 1935	RS1/10S473J
		R 1936	RS1/10S473J
D 1907 LED	CL170PGCD		
D 1909 LED	CL170PGCD	R 1937	RS1/10S103J
D 1910 LED	CL170SBX	R 1938	RS1/10S473J
D 1912 LED	CL170PGCD	R 1939	RA4C101J
D 1913 LED	CL170PGCD	R 1940	RS1/10S103J
		R 1941	RA4C101J
D 1914 LED	CL170PGCD		
D 1915 LED	CL170SBX	R 1942	RS1/10S103J
D 1917 LED	CL170PGCD	R 1943	RS1/10S473J
D 1918 LED	CL170PGCD	R 1944	RS1/10S473J
D 1919 LED	CL170SBX	R 1945	RS1/10S473J
		R 1946	RA3C102J
D 1920 LED	CL170PGCD		
L 1901 Inductor	LCTA2R2J3225	R 1947	RA3C102J
L 1902 Inductor	LCTB2R2K2125	R 1948	RA3C102J
L 1903 Inductor	LCTB2R2K2125	R 1950	RS1/10S624J
L 1904 Inductor	LCTB2R2K2125	R 1951	RS1/10S754J
		R 1952	RS1/10S624J
L 1905 Inductor	LCTA4R7J3225		
X 1901 Radiator 3.77MHz	CSS1427	R 1953	RS1/10S754J
S 1901 Spring Switch	CSN1042	R 1954	RS1/10S471J
S 1902 Push Switch	CSG1117	R 1955	RS1/10S471J
S 1903 Switch	CSG1075	R 1956	RS1/10S471J
		R 1957	RS1/10S471J
S 1904 Push Switch	CSG1117		
S 1906 Push Switch	CSG1118	R 1958	RS1/10S473J
S 1907 Switch	CSG1075	R 1959	RS1/10S472J
S 1908 Push Switch	CSG1117	R 1960	RS1/10S103J
S 1909 Push Switch	CSG1117	R 1961	RS1/10S103J
		R 1962	RS1/10S103J
S 1910 Push Switch	CSG1117		
S 1911 Switch	CSG1108	R 1963	RS1/10S0R0J
S 1913 Push Switch	CSG1117	R 1964	RS1/8S102J
S 1914 Push Switch	CSG1118	R 1965	RS1/8S751J
S 1915 Switch	CSG1107	R 1966	RS1/8S751J
		R 1967	RS1/8S751J
S 1916 Push Switch	CSG1117		
VR 1901 Semi-fixed 220kΩ(B)	CCP1237	R 1968	RS1/8S102J
VR 1902 Semi-fixed 220kΩ(B)	CCP1237	R 1970	RS1/8S751J
EL 1901 EL	CEL1580		
LCD1901 LCD (DEX-P1R/UC)	CAW1470		
		CAPACITORS	
LCD1901 LCD (DEH-P946/ES,DEX-P1/ES)	CAW1471	C 1901	CSZSR100M6R3
		C 1902	CKSQYB104K16
RESISTORS		C 1903	CKSQYB104K16
		C 1904	CKSQYB104K16
R 1901	RS1/8S222J	C 1905	CKSQYB104K16
R 1902	RS1/8S222J		
R 1903	RS1/8S222J	C 1906	CKSQYB103K50
R 1904	RS1/10S121J	C 1907	CKSQYB103K50
R 1905	RS1/10S473J	C 1908	CKSQYB103K50
		C 1909	CKSQYF105Z16
R 1906	RS1/8S102J	C 1910	CKSQYF105Z16
R 1907	RS1/8S751J		
R 1908	RS1/10S103J	C 1911	CKSQYF105Z16
R 1909	RS1/10S0R0J	C 1912	CKSQYF105Z16
R 1910	RS1/8S751J	C 1913	CKSQYF105Z16
		C 1914	CKSQYF105Z16
		C 1915	CKSQYF105Z16

====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
C	1916		CKSQYF105Z16	R	3011		RS1/16S102J
C	1917		CKSQYB103K50	R	3012		RS1/16S102J
C	1918		CSZS1R0M16	R	3013		RS1/16S102J
C	1919		CSZS1R0M16	R	3014		RS1/16S102J
C	1920		CSZS1R0M16	R	3015		RS1/16S473J
C	1921		CKSQYF105Z16	R	3016		RA3C102J
C	1922		CKSQYF105Z16	R	3018		RS1/16S102J
C	1923		CKSQYF105Z16	R	3019		RS1/16S102J
C	1924		CKSQYF105Z16	R	3020		RS1/16S102J
C	1925		CKSQYF105Z16	R	3021		RS1/16S102J
C	1926		CKSQYB103K50	R	3022		RS1/16S102J
C	1927		CSZS1R0M16	R	3023		RS1/16S102J
C	1928		CSZS1R0M16	R	3024		RS1/16S102J
C	1929		CSZS1R0M16	R	3025		RS1/16S102J
C	1934		CSZSR100M6R3	R	3026		RS1/16S102J
C	1935		CKSQYB104K16	R	3027		RS1/16S102J
C	1936		CSZSR100M6R3	R	3028		RS1/16S102J
<div><div>F</div><div>Unit Number : CWX2213 Unit Name : DSP Unit</div></div>				R	3029		RS1/16S102J
				R	3030		RS1/16S102J
				R	3031		RS1/16S102J
				R	3032		RS1/16S102J
MISCELLANEOUS							
				R	3033		RS1/16S473J
IC	3001	IC	PD5445C	R	3034		RS1/16S473J
IC	3101	IC	AK7712AVT	R	3035		RS1/16S473J
IC	3102	IC	TC9331F	R	3036		RS1/16S105J
IC	3103	IC(M5M51016BTP-70LL)	GGC1325				
IC	3141	IC	BU4066BCFV	R	3037		RS1/16S102J
				R	3101		RS1/16S473J
IC	3142	IC	TC7S08FU	R	3102		RS1/16S473J
IC	3201	IC	PE2001AF	R	3103		RA4C102J
IC	3301	IC	PM0017AM	R	3104		RA4C102J
L	3001	High Loss Inductor	CTF1410				
L	3002	High Loss Inductor	CTF1410	R	3105		RA4C102J
				R	3106		RA4C102J
L	3003	High Loss Inductor	CTF1410	R	3108		RA4C102J
L	3004	High Loss Inductor	CTF1410	R	3109		RA4C102J
L	3101	High Loss Inductor	CTF1410	R	3110		RA4C102J
L	3102	High Loss Inductor	CTF1410				
L	3103	High Loss Inductor	CTF1410	R	3111		RA4C102J
				R	3112		RS1/16S105J
L	3104	High Loss Inductor	CTF1410	R	3113		RS1/16S105J
L	3141	Inductor	LCTB2R2K2125	R	3114		RS1/16S102J
L	3142	High Loss Inductor	CTF1410	R	3115		RS1/16S102J
L	3143	Inductor	CTF1420				
L	3151	High Loss Inductor	CTF1410	R	3116		RS1/16S473J
				R	3141		RA3C103J
L	3152	High Loss Inductor	CTF1410	R	3151		RSK1/16S151J
L	3153	High Loss Inductor	CTF1410	R	3152		RSK1/16S151J
L	3154	High Loss Inductor	CTF1410	R	3153		RSK1/16S151J
L	3201	High Loss Inductor	CTF1410				
L	3301	High Loss Inductor	CTF1410	R	3154		RSK1/16S151J
				R	3155		RSK1/16S151J
L	3302	High Loss Inductor	CTF1410	R	3156		RSK1/16S151J
L	3303	High Loss Inductor	CTF1410	R	3160		RS1/10S0R0J
L	3304	High Loss Inductor	CTF1410				
L	3305	High Loss Inductor	CTF1410	CAPACITORS			
L	3306	High Loss Inductor	CTF1410				
X	3001	Resonator 10.00MHz	CSS1428	C	3002		CKSYB106K6R3
X	3101	Crystal Resonator 16.9344MHz	CSS1067	C	3102		CKSQYB103K50
X	3102	Crystal Resonator 32.0MHz	CSS1360	C	3104		CCSRCH100D50
				C	3105		CCSRCH100D50
				C	3107		CKSYB106K6R3
RESISTORS							
R	3001		RS1/16S102J	C	3108		CKSQYB104K16
R	3002		RS1/16S102J	C	3109		CSZSR470M6R3
R	3003		RS1/16S102J	C	3110		CKSQYB104K16
R	3004		RS1/16S681J	C	3111		CKSYB106K6R3
R	3005		RS1/16S681J	C	3112		CKSQYB104K16
R	3006		RS1/16S681J	C	3113		CCSQCH221J50
R	3007		RS1/16S681J	C	3114		CKSYB106K6R3
R	3008		RS1/16S681J	C	3115		CCSQCH100J50
R	3009		RS1/16S681J	C	3116		CCSQCH100J50
R	3010		RS1/16S102J	C	3117		CKSYB106K6R3

DEX-P1R,DEH-P946,DEX-P1

====Circuit Symbol and No.==Part Name	Part No.
C 3119	CKSYB106K6R3
C 3120	CKSQYB104K16
C 3141	CKSQYB103K50
C 3143	CKSQYB103K50
C 3145	CCSQCH470J50
C 3146	CCSRCH221J50
C 3151	CKLSRB332K50
C 3152	CKLSRB332K50
C 3159	CKLSRR103K16
C 3160	CKLSRR103K16
C 3161	CKLSRR103K16
C 3162	CKLSRR103K16
C 3163	CKLSRR103K16
C 3164	CKLSRR103K16
C 3201	CKSYB106K6R3
C 3203	CKSQYB104K16
C 3205	CSZSR470M6R3
C 3206	CKSQYB104K16
C 3207	CKSYB106K6R3
C 3301	CKSYB475K10
C 3302	CKSYB475K10
C 3303	CKSYB475K10
C 3304	CKSYB475K10
C 3305	CKSYB475K10
C 3306	CKSYB475K10
C 3307	CKSQYB104K16
C 3308	CKSYB106K6R3
C 3309	CKSQYB104K16

G Unit Number : CWM4538(DEX-P1R/UC,DEX-P1/ES)
Unit Name : D/D Converter Unit

MISCELLANEOUS

IC 4001	IC	TL1451ANS
Q 4001	Transistor	2SA1797
Q 4002	Transistor	2SC2812
Q 4003	Transistor	2SA1179
Q 4004	Transistor	2SA1576
Q 4005	Transistor	DTC124EU
D 4001	Diode	SC802-06
L 4001	Choke Coil 220μH	CTH1164
L 4002	Choke Coil 220μH	CTH1164
L 4003	Choke Coil 220μH	CTH1164

RESISTORS

R 4001		RS1/10S122J
R 4002		RS1/10S473J
R 4003		RS1/4S681J
R 4004		RS1/10S101J
R 4005	(RN1/10SE3302D)	GGC1319
R 4006	(RN1/10SE1202D)	GGC1269
R 4007		RS1/10S104J
R 4008	(RN1/10SE6201D)	GGC1324
R 4009		RS1/10S223J
R 4010		RS1/10S223J
R 4011		RS1/10S101J
R 4012	(RN1/10SE1002D)	GGC1320
R 4013	(RN1/10SE1002D)	GGC1320
R 4016		RS1/10S754J
R 4017	(RN1/10SE9101D)	GGC1321
R 4018	(RN1/10SE1502D)	GGC1322
R 4019	(RN1/10SE3002D)	GGC1323

CAPACITORS

C 4001	33μF/25V	CCH1249
C 4002		CKSQYB102K50
C 4003	33μF/25V	CCH1249
C 4004		CCSQCH101J50
C 4005		CKSQYB102K50

====Circuit Symbol and No.==Part Name	Part No.
C 4006	33μF/25V
C 4008	33μF/25V
C 4009	
C 4010	
C 4011	
C 4012	CCSQCH221J50
C 4013	CKSQYB104K25
C 4014	CKSQYB102K50

High Out Unit
Consists of
D/D Converter PCB
High Out PCB

E H Unit Number : CWX2215(DEX-P1R/UC,DEX-P1/ES)
Unit Name : High Out Unit

MISCELLANEOUS

IC 4151	IC	NJM4580M
IC 4251	IC	NJM4580M
IC 4351	IC	NJM4580M
Q 4151	Transistor	IMX9
Q 4251	Transistor	IMX9
Q 4351	Transistor	IMX9

RESISTORS

R 4153		RSK1/10S103J
R 4154		RSK1/10S103J
R 4155		RSK1/10S153J
R 4156		RSK1/10S153J
R 4157		RSK1/10S680J
R 4158		RSK1/10S680J
R 4159		RS1/10S223J
R 4160		RS1/10S223J
R 4161		RS1/10S222J
R 4162		RS1/10S222J
R 4163		RS1/10S103J
R 4253		RSK1/10S103J
R 4254		RSK1/10S103J
R 4255		RSK1/10S163J
R 4256		RSK1/10S163J
R 4257		RSK1/10S680J
R 4258		RSK1/10S680J
R 4259		RS1/10S223J
R 4260		RS1/10S223J
R 4261		RS1/10S222J
R 4262		RS1/10S222J
R 4353		RSK1/10S103J
R 4354		RSK1/10S103J
R 4355		RSK1/10S153J
R 4356		RSK1/10S153J
R 4357		RSK1/10S680J
R 4358		RSK1/10S680J
R 4359		RS1/10S223J
R 4360		RS1/10S223J
R 4361		RS1/10S222J
R 4362		RS1/10S222J

CAPACITORS

C 4151		CEWAR100M50
C 4152		CKSQYB471K50
C 4153		CEWAR100M50
C 4154		CEWAR100M50
C 4157		CCSQCH820J50
C 4158		CCSQCH820J50
C 4253		CEWAR100M50
C 4254		CEWAR100M50
C 4257		CCSQCH820J50
C 4258		CCSQCH820J50

====Circuit Symbol and No.==Part Name

Part No.

C 4353
C 4354
C 4357
C 4358

CEWAR100M50
CEWAR100M50
CCSQCH820J50
CCSQCH820J50

L Unit Number : CWX2216
Unit Name : ASL Unit

MISCELLANEOUS

IC 4501 IC
IC 4502 IC
Q 4501 Transistor
D 4501 Diode
D 4502 Diode

D 4503 Diode
VR 4501 Semi-fixed 10KΩ(B)
MIC4501 Microphone

NJM2068MD
NJM2068MD
2SC2458
MA152WK
MA3043(LMH)

MA3075(M)
CCP1319
CPM1011

RESISTORS

R 4501
R 4502
R 4503
R 4504
R 4505

RS1/8S222J
RS1/8S683J
RS1/8S103J
RS1/8S472J
RS1/8S471J

R 4506
R 4507
R 4508
R 4509
R 4510

RS1/8S682J
RS1/8S684J
RS1/8S562J
RS1/8S391J
RS1/8S472J

R 4511
R 4512
R 4513
R 4514
R 4515

RS1/8S472J
RS1/8S472J
RS1/8S153J
RS1/8S153J
RS1/8S102J

R 4517

RS1/8S270J

CAPACITORS

C 4501
C 4502
C 4503
C 4504
C 4505

CEJA470M10
CEJA470M10
CEJAR68M50
CEJA100M16
CEJA470M10

C 4506
C 4507
C 4508
C 4509
C 4510

CEJA470M16
CEJA100M16
CEJANP220M10
CEJAR68M50
CEJANP100M10

C 4511
C 4512
C 4513

CKSYB823K50
CCSCH101J50
CEJA470M10

I Unit Number : CWX2191
Unit Name : Mechanism FPC Unit

MISCELLANEOUS

D 1 LED
D 2 LED
D 3 LED
S 1 Spring Switch(Clamp)
S 2 Spring Switch(Home)

CL200IRX
CL200IRX
CL200IRX
CSN1033
CSN1033

RESISTORS

R 1
R 2
R 3
R 4
R 5

RS1/8S0R0J
RS1/8S0R0J
RS1/8S751J
RS1/8S751J
RS1/8S751J

====Circuit Symbol and No.==Part Name

Part No.

J Unit Number : CWX2190
Unit Name : Photo FPC Unit

P 1 Photo-transistor
P 2 Photo-transistor
P 3 Photo-transistor

CPT-230S-X
CPT-230S-X
CPT-230S-X

K Unit Number :
Unit Name : Flap Sense PCB

S 951 Switch(CLOSE)
S 952 Switch(OPEN)

CSN1012
CSN1022

M Unit Number :
Unit Name : Microphone Jack Unit

D 4601 LED

BR4361F

Miscellaneous Parts List

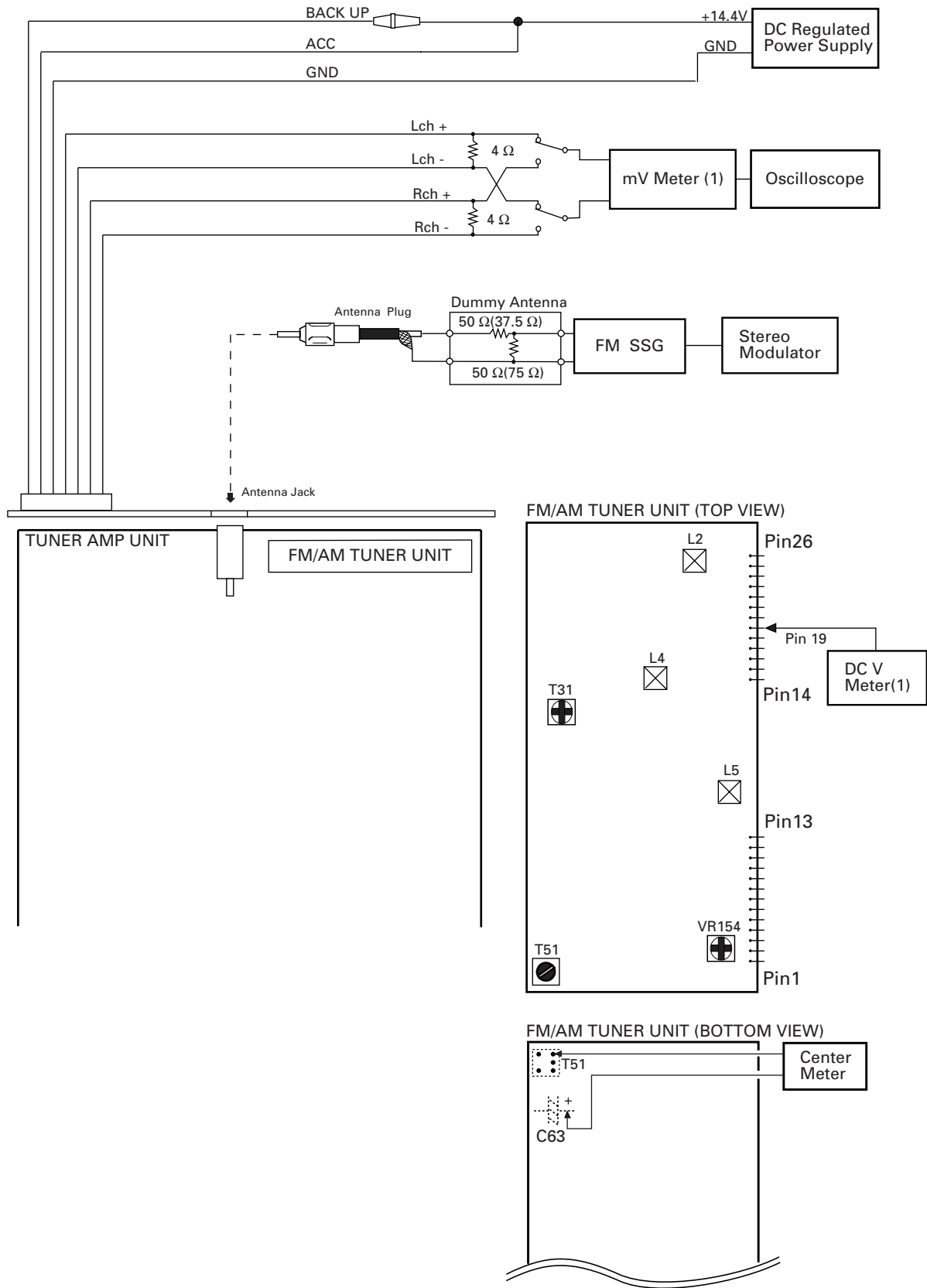
M 1 Pickup Unit(Service)
M 2 CRG Motor Assy(Carriage)
M 3 LOAD Motor Unit>Loading)
M 851 Motor(Spindle)
M 851 Motor

CXX1290
CXB1670
CXB1684
CXM1129
CXM1085

6. ADJUSTMENT

6.1 TUNER ADJUSTMENT

● Connection Diagram



FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
TUN Volt	1	.....	.....	108.0	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

6.2 KEYBOARD UNIT ADJUSTMENT

● ADJUSTMENT OF VISUAL-FIELD ANGLE OF THE KEYBOARD UNIT

No.	Standard	Measurement Point	Adjustment Point	Conditions
1	Adjustment standard -0.10[V]	-2.5+0.10[V] or TP14	IC1904-6pin	VR1902 SW VDD supply voltage 5[V]
	Inspection +0.15[V] standard -0.15[V]	IC1905-6pin - or TP15	VR1901	

6.3 CD ADJUSTMENT

1)Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.

If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure
Switch ACC, back-up ON while pressing the **CLOCK** and **TR-** keys together.

- Test mode cancellation
Switch ACC, back-up OFF.

- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.

*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.

*The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched OFF.

6.4 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

• Note :

Unlike previous CD mechanism modules the grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose :

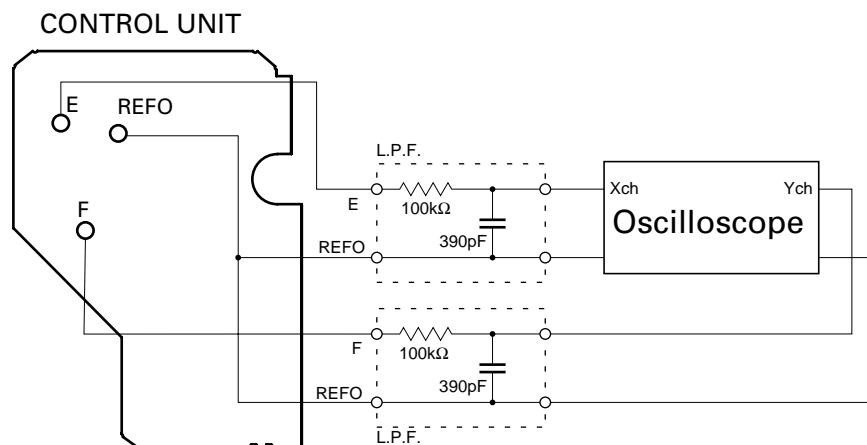
To check that the grating is within an acceptable range.

• Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or track searching taking a long time, may appear.

• Method :

- | | |
|-----------------------|----------------------------|
| • Measuring Equipment | • Oscilloscope, Two L.P.F. |
| • Measuring Points | • E, F, REFOUT |
| • Disc | • ABEX TCD-784 |
| • Mode | • TEST MODE |



• Checking Procedure

1. In test mode, load the disc and switch the 5V regulator on.
2. Using the **TR+** and **TR-** buttons, move the PU unit to the innermost track.
3. Press key **3** to close focus, the display should read "91". Press key **2** to implement the tracking balance adjustment the display should now read "81". Press key **3** 4 times. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75° . Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

• Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• Hint

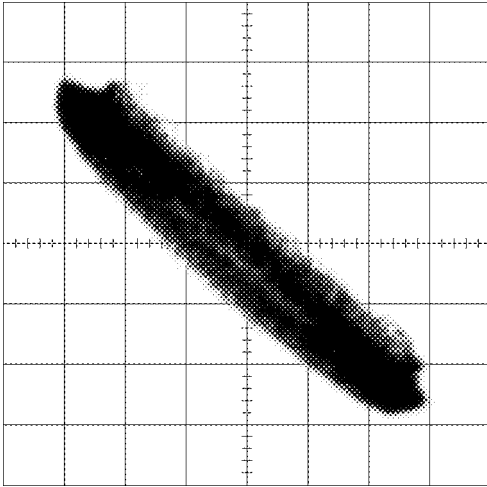
Reloading the disc changes the clamp position and may decrease the "wobble".

Grating waveform

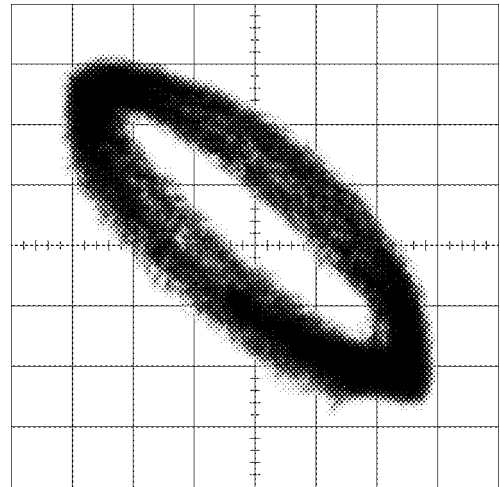
Ech → Xch 20mV/div, AC

Fch → Ych 20mV/div, AC

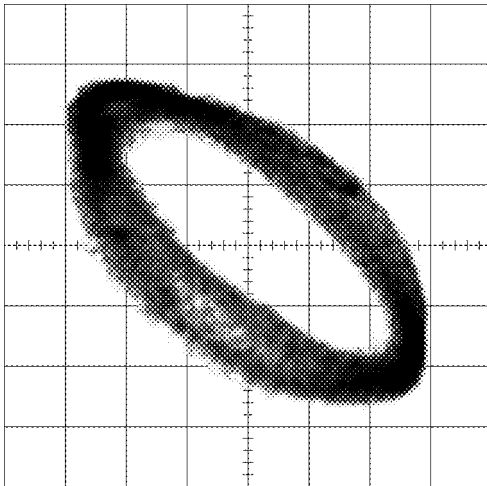
0°



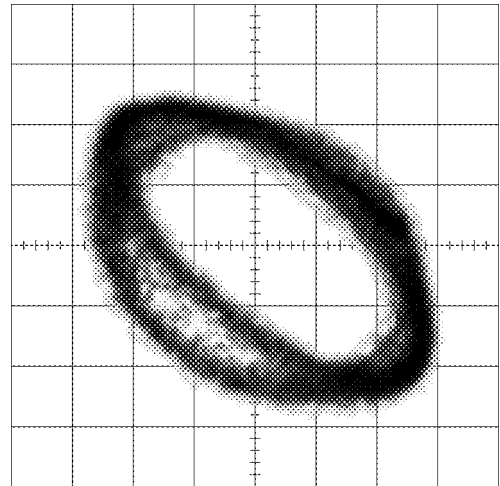
30°



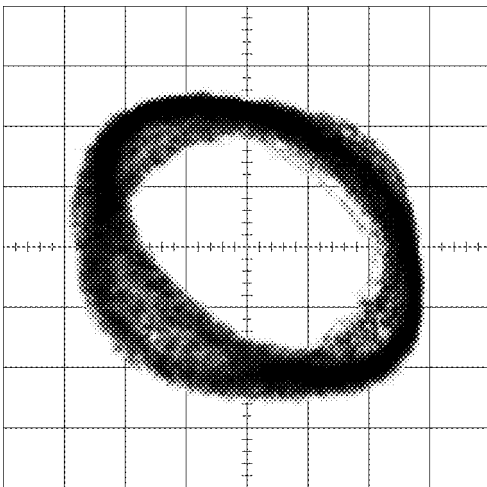
45°



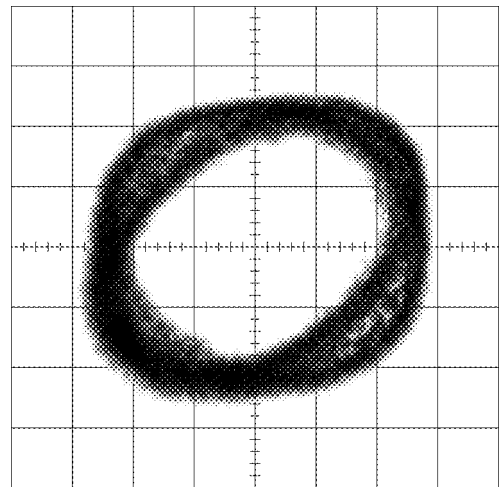
60°



75°



90°



7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

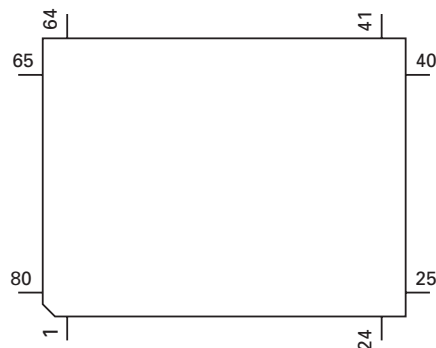
UPD63702AGF	PD4908A	AK7712AVT
BA6797FM	PD4906A	GGC1325(M5M51016BTP-70LL)
LC89170M	PD4931A	TC7S08FU
BA05SFP	PD0236AM	PE2001AF
LB1930M	PD6237B	PM0017AM
PM2006A	SED1540F0A	NJM4580M
PD6191A	SED1526F0A	
PD8034A	PD5445A	

● Pin Functions (UPD63702AGF)

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST	I	System reset input pin
3	AO	I	Microcomputer interface AO="L": STB active and set to address register AO="H": STB active and set to parameter
4	STB	I	Signal to latch serial data within the LSI
5	SCK	I	Clock input pin to input and output serial data
6	SO	O	Outputs serial data and status signal
7	SI	I	Serial data input pin
8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
10	XTAL	I	Crystal oscillator connection pin
11	XTAL	O	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	O	Right channel analog audio data output pin
15	R-	O	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	O	Left channel analog audio data output pin
19	L+	O	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	O	Flag output pin to indicate that audio data currently being output consists of noncorrectable data
23	WDCK	O	Pin to output double the frequency of LRCK
24	C16M	O	Pin to output the clock
25	EMPH	O	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	I	Input pin for serial audio data
27	DOUT	O	Output pin for the serial audio data
28	SCKO	O	Output pin for the clock for the serial audio data
29	LRCK	O	Signals to distinguish the right and left channels of the audio data output from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	O	Output pin for the digital audio interface data
31	CTLV	I	Oscillation control pin for high-frequency clock generation VCO used for the digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	O	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	VCO	I	Input pin for the inverter
35	VCO	O	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	O	Pin for monitoring the bit clock

Pin No.	Pin Name	I/O	Function and Operation
38	LOCK	O	Indicates "H" when the synchronized pattern detection signal matches the frame counter output at the EFM recovery modulation, and "L" when they don't match
39	WFCK	O	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame (approx. 7.35kHz)
40	RFCK	O	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame (approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	I	Test pins
44,45	TM2, TM4	I	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	I	Test pins
50,51	C1D1, C1D2	O	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	O	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	O	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	O	The signal indicates the beginning of the subcode block. The SFSY signal is output at high level every 98 times
58	SBSO	O	Output pin for the subcode data
59	SBCK	I	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	O	Output pin for the spindle drive
62	SD	O	Output pin for the sled drive
63	TD	O	Output pin for the tracking drive
64	FD	O	Output pin for the focus drive
65	FBAL	O	Output pin for the focus balance control
66	TBAL	O	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	I	Switches coefficient banks for the tracking filter
69	EFM	I	Input pin for the EFM signal
70	HOLD	I	Input pin for the hold control signal
71	RFOK	I	Input pin for the RFOK signal
72	MIRR	I	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74	HOME	I	Home position detector input
75	VR1	I	The signal input through these pins is digitized to 8-bit by the A/D converter, which by operation of the assigned register, can be read into the microcomputer
76	FE	I	Inputs a focus-error signal from the RF amplifier
77	TE	I	Inputs a tracking-error signal from the RF amplifier
78	TEC	I	Input pin for the tracking comparator
79	REFOUT	O	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

*UPD63702AGF



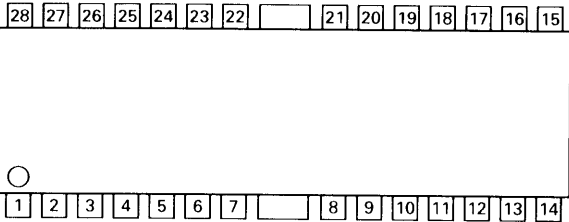
IC's marked by* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

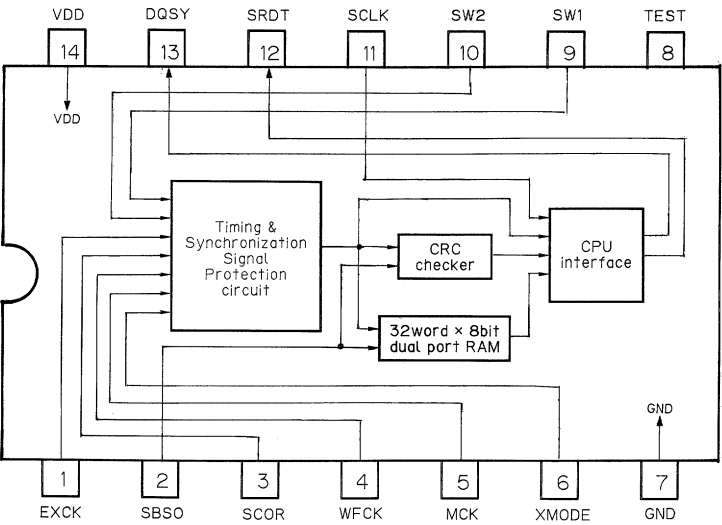
● Pin Functions (BA6797FM)

Pin No.	Pin Name	I/O	Function and Operation
1	OUT1-A	O	Driver CH1 output
2	OUT1-B	O	Driver CH1 output
3	PRE-OUT1	O	CH1 pre-amplifier output
4	IN1(-)	I	CH1 pre-amplifier inverted input
5	IN1(+)	I	CH1 pre-amplifier input
6	REG-B	O	External Tr base connection
7	REG-OUT	O	Fixed voltage output (External Tr collect connection)
8	BIAS-IN	I	Bias input
9	MUTE	I	Mute control
10	IN2(+)	I	CH2 pre-amplifier input
11	IN2(-)	I	CH2 pre-amplifier inverted input
12	PRE-OUT2	O	CH2 pre-amplifier output
13	OUT2-B	O	Driver H2 output
14	OUT2-A	O	Driver CH2 output
15	GND		Sub straight GND
16	OUT3-A	O	Driver CH3 output
17	OUT3-B	O	Driver CH3 output
18	PRE-OUT3	O	CH3 pre-amplifier output
19	IN3(-)	O	CH3 pre-amplifier inverted output
20	IN3(+)	O	CH3 pre-amplifier output
21	VCC		VCC
22	VCC		VCC
23	IN4(+)	O	CH4 pre-amplifier output
24	IN4(-)	O	CH4 pre-amplifier inverted output
25	PRE-OUT4	O	CH4 pre-amplifier output
26	OUT4-B	O	Driver CH4 output
27	OUT4-A	O	Driver CH4 output
28	GND		Sub straight GND

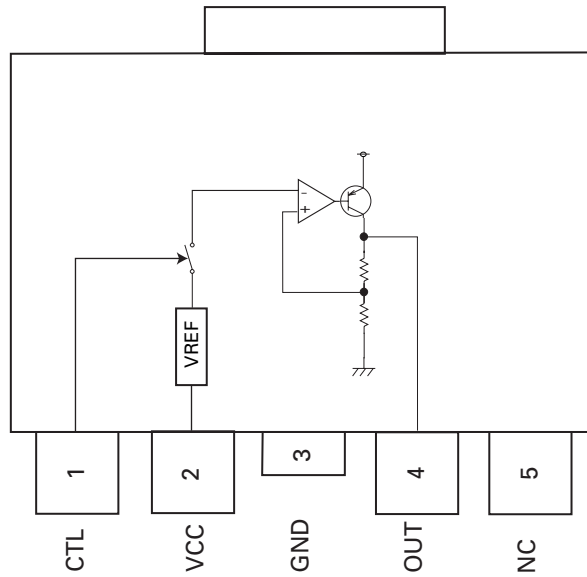
BA6797FM



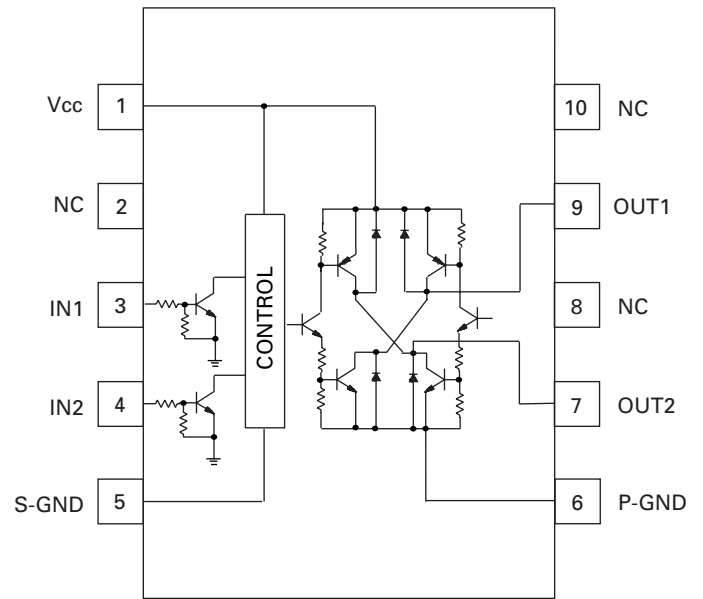
LC89170M



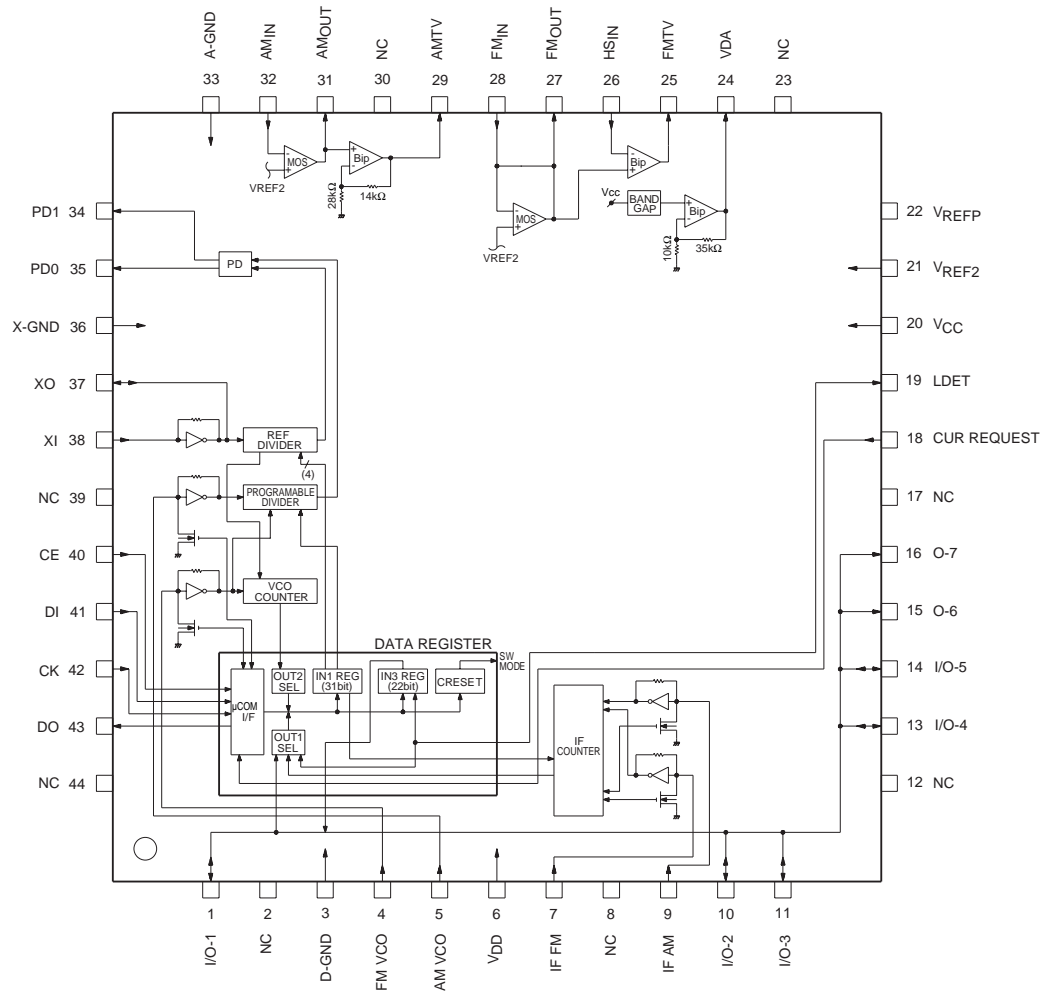
BA05SFP



LB1930M



PM2006A

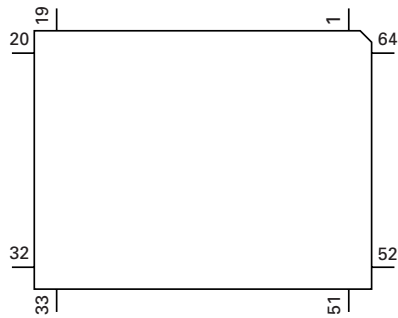


● Pin Functions (PD6191A)

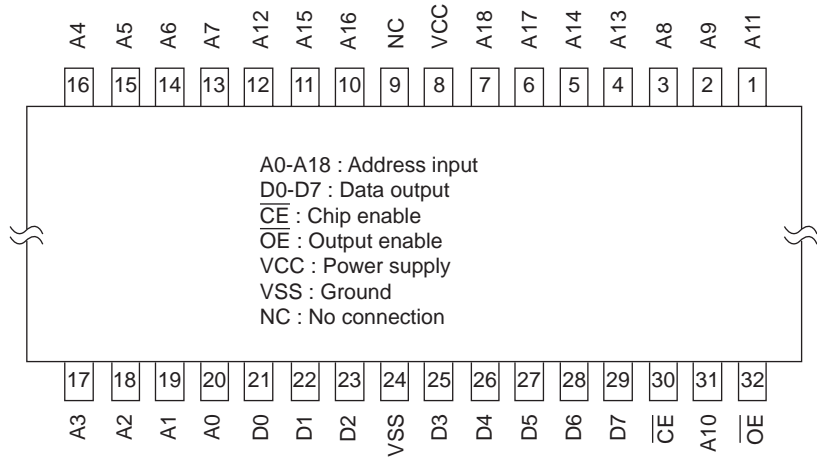
Pin No.	Pin Name	I/O	Format	Function and Operation
1-8	OPEN			Open
9	\overline{OE}	O		ROM output control
10	ROMEN	O		ROM enable
11	ADD17	O		ROM address
12	AVCC			Analog power supply
13	AVR			5V power supply
14	AVSS			Connect to GND
15	\overline{IRSEL}	I		Select input
16	RCK	I		RDS demodulation clock input
17	RDT	I		RDS demodulation data input
18	OPEN			Open
19	\overline{RDSLK}	I		RDS LK signal input
20	\overline{IRRST}	I		Reset input
21	MOD0	I		Connect to GND
22	MOD1	I		Connect to GND
23	XIN	I		Crystal oscillating element connection pin
24	XOUT	O		Crystal oscillating element connection pin
25	VSS			GND
26	\overline{DRST}	O	C	Reset output
27,28	OPEN			Open
29	IRRDY	O	C	Communication ready output
30-33	ADD16-13	O		ROM address
34-41	ADD7-0	O		ROM address
42-49	DT7-0	I		ROM data input
50	VSS			GND
51	TEST	I		Test terminal
52	\overline{IRSCK}			Communication clock input
53	IRDO	O	C	Communication data output
54	IRDI	I		Communication data input
55,56	OPEN			Open
57	VCC			5V
58	SD	I		SD signal input
59	OPEN			Open
60-64	ADD8-12	O		ROM address

*PD6191A

Format	Meaning
C	C MOS



PD8034A



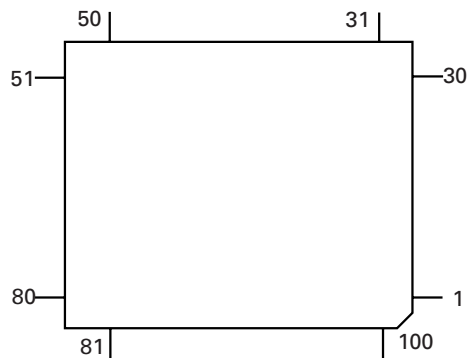
● Pin Functions (PD4908A)

Pin No.	Pin Name	I/O	Function and Operation
1	SWVDD	O	GRIL:Power Output
2	DSSENS	I	Detach sense input
3	PSSENS	I	Grill eject button sense input
4	ISENS	I	Illumination sense input
5	TESTIN	I	Test program input
6	IDRST	O	ID-LOGIC:Mother Reset output (RDS:Reset output)
7	IDSEL	O	ID-LOGIC:Select output
8	IDCK	O	ID-LOGIC:Clock input/output (RDS:SK input)
9	IDDI	I	ID-LOGIC:data input (RDS:decoder)
10	IDDO	O	ID-LOGIC:data output
11	RESET		Reset input
12	XT2		Clock connection pin (OPEN)
13	XT1		Clock connection pin (VSS connection)
14	VSS		GND
15	X2		Main oscillator connection pin
16	X1		Main oscillator connection pin (12.582912MHz)
17	REGOFF		Regulator operation designate signal (VDD connection)
18	REGC		Regulator output sense capacity connection (VDD connection)
19	VDD		Power supply
20	ILMPW	O	Illumination output
21	SYSPW	O	System power control output
22	ADPW	O	A/D converter power output
23	LCDPW	O	LCD back light power output
24	IPPW	O	IPBUS driver power control output
25	ASENBO	O	Slave Acc sense output
26	NC	O	Not used
27	TELIN	I	TELL mute output
28	MUTE	O	All mute output
29	DIM	O	Dimer output
30	FLPCLS	O	Auto flap motor close output
31	FLPOPEN	O	Auto flap motor open output
32	FOPNSW	I	Auto flap motor open SW input
33	FCLSSW	I	Auto flap motor close SW input
34	FLPPW	O	Auto flap power output
35	NC	O	Not used
36	TMUTE	O	TUNER mute output
37	STDPRO	I	DSP STD/PRO select input
38	SD	I	SD input
39	ST	I	Stereo input
40	VSS		GND
41	VDD		Power supply
42-46	NC		Not used
47	DRELAY	O	DFS:Extral relay output (J:Antenna power output)
48	DRSENS	I	DFS:Door open/close sense input
49	DRSYS	O	DFS:Door system select output
50	DLED	O	DFS:Alarm LED output
51	DLSSENS	I	DFS:Door lock cancellation sense input
52	STCUT	O	DFS:Ignition cut off output
53	MOSENS	I	DFS:Motion/Window damage sensor input
54	DALMON	O	DFS alarm ON output
55-60	NC	O	Not used
61	MCSENS	I	Mic sense input
62	PCL	O	Clock adjust output
63	BRXEN	I/O	P-BUS:Communication input/output
64	BSROC	I	P-BUS:Communication request input (CD)
65	BSCK	I/O	P-BUS:Data clock input/output (Test mode clock output)
66	BSI	I	P-BUS:Communication data input (Test mode data input)
67	BSO	I/O	P-BUS:Communication data output

DEX-PIR,DEH-P946,DEX-PI

Pin No.	Pin Name	I/O	Function and Operation
68	BRST	O	P-BUS:Reset output
69	MICSEL	O	Mic select output
70	BSROD	I	P-BUS:Communication request input (DSP)
71,72	NC	O	Not used
73	TEST/VPP		IC test pin
74	SL	I	Signal level input
75,76	NC	O	Not used
77	SEL	I	Destination descrimination input
78	SOR0	O	Source select output 0
79	SOR1	O	Source select output 1
80	ALMSEL	O	DFS alarm select output
81	ADSEL	I	Mic select input
82	AVDD		A/D convertor power supply
83	AVREF1		A/D convertor standard voltage
84	AVSS		A/D convertor GND
85	RX	I	IP-BUS: Data input
86	TX	O	IP-BUS:Data output
87	GND	I	
88-90	NC	I	Not used
91	IDRDY	I	ID-LOGIC:Ready input
92	ASENS	I	Acc sense input
93	BSSENS	I	B.up sense input
94	TUNPDI	I	PLL:Data input
95	KEYDT	I	GRIL:Data input
96	DPDT	O	GRIL:Data output
97	TUNPCK	O	PLL:Clock output
98	TUNPDO	O	PLL:Data output
99	TUNPCE	O	PLL:Chip enable output
100	PEE	O	PEE beep output

*PD4908A



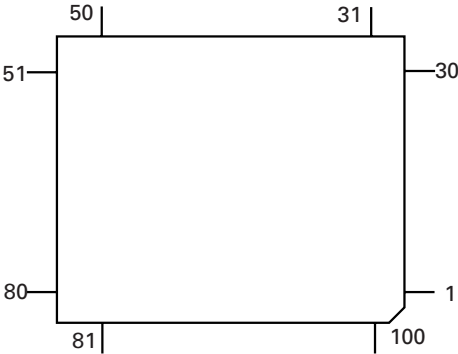
● Pin Functions (PD4906A)

Pin No.	Pin Name	I/O	Function and Operation
1	SWVDD	O	GRIL:Power Output
2	DSSENS	I	Detach sense input
3	PSSENS	I	Grill eject button sense input
4	ISENS	I	Illumination sense input
5	TESTIN	I	Test program input
6-10	NC	O	ID-LOGIC:Mother Reset output (RDS:Reset output)
11	RESET		Reset input
12	XT2		Clock connection pin (OPEN)
13	XT1		Clock connection pin (VSS connection)
14	VSS		GND
15	X2		Main oscillator connection pin
16	X1		Main oscillator connection pin (12.582912MHz)
17	REGOFF		Regulator operation designate signal (VDD connection)
18	REGC		Regulator output sense capacity connection (VDD connection)
19	VDD		Power supply
20	ILMPW	O	Illumination output
21	SYS PW	O	System power control output
22	ADPW	O	A/D converter power output
23	LCDPW	O	LCD back light power output
24	IPPW	O	IPBUS driver power control output
25	ASENBO	O	Slave Acc sense output
26	NC	O	Not used
27	TELIN	I	TELL mute output
28	MUTE	O	All mute output
29	DIM	O	Dimer output
30	FLPCLS	O	Auto flap motor close output
31	FLPOPEN	O	Auto flap motor open output
32	FOPNSW	I	Auto flap motor open SW input
33	FCLSSW	I	Auto flap motor close SW input
34	FLPPW	O	Auto flap power output
35	NC	O	Not used
36	TMUTE	O	TUNER mute output
37	STDPRO	I	DSP STD/PRO select input
38	SD	I	SD input
39	ST	I	Stereo input
40	VSS		GND
41	VDD		Power supply
42-46	NC	O	Not used
47	DRELAY	O	DFS:Extral relay output (J:Antenna power output)
48	DRSENS	I	DFS:Door open/close sense input
49	DRSYS	O	DFS:Door system select output
50	DLED	O	DFS:Alarm LED output
51	DLSSENS	I	DFS:Door lock cancellation sense input
52	STCUT	O	DFS:Ignition cut off output
53	MOSENS	I	DFS:Motion/Window damage sensor input
54	DALMON	O	DFS alarm ON output
55-60	NC	O	Not used
61	MCSENS	I	Mic sense input
62	PCL	O	Clock adjust output
63	BRXEN	I/O	P-BUS:Communication input/output
64	BSRQC	I	P-BUS:Communication request input (CD)
65	BSCK	I/O	P-BUS:Data clock input/output (Test mode clock output)
66	BSI	I	P-BUS:Communication data input (Test mode data input)
67	BSO	I/O	P-BUS:Communication data output
68	BRST	O	P-BUS:Reset output
69	MICSEL	O	Mic select output
70	BSROD	I	P-BUS:Communication request input (DSP)
71,72	NC	O	Not used

DEX-PIR,DEH-P946,DEX-PI

Pin No.	Pin Name	I/O	Function and Operation
73	TEST/VPP		IC test pin
74	SL	I AD	Signal level input (A/D)
75,76	NC	O	Not used
77	SEL	I	Destination descrimination input
78	SOR0	O	Source select output 0
79	SOR1	O	Source select output 1
80	ALMSEL	O	DFS alarm select output
81	ADSEL	I	Mic select input
82	AVDD		A/D convertor power supply
83	AVREF1		A/D convertor standard voltage
84	AVSS		A/D convertor GND
85	RX	I	IP-BUS: Data input
86	TX	O	IP-BUS:Data output
87	GND	I	
88-91	NC	I	Not used
92	ASENS	I	Acc sense input
93	BSENS	I	B.up sense input
94	TUNPDI	I	PLL:Data input
95	KEYDT	I	GRIL:Data input
96	DPDT	O	GRIL:Data output
97	TUNPCK	O	PLL:Clock output
98	TUNPDO	O	PLL:Data output
99	TUNPCE	O	PLL:Chip enable output
100	PEE	O	PEE beep output

*PD4906A



● Pin Functions (PD4931A)

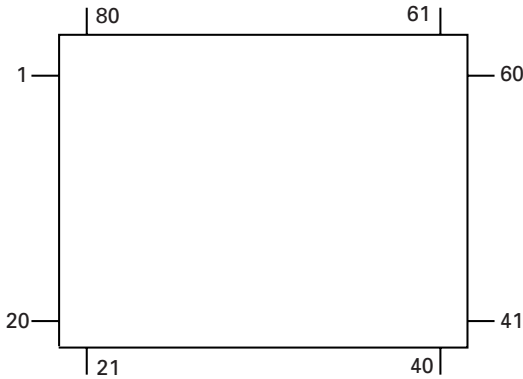
Pin No.	Pin Name	I/O	Format	Function and Operation
1	FOK	I		Focus OK input
2	MIRR	I		Mirror detect input
3	LOCK	I		Spindle lock input
4	AVss			A/D GND electric potential
5	NC			Not used
6	EMPH	O	C	Pre-emphasis output
7	AVREF1	I		A/D Reference electric potential input
8	TSI	I		Decode IC serial data input
9	NC			Not used
10	T $\overline{\text{SCK}}$	O	C	Decode IC serial clock output
11	XSI	I		Serial data input from CD LSI
12	XSO	O	C	Serial data output to CD LSI
13	X $\overline{\text{SCK}}$	O	C	Serial clock output to CD LSI
14	XA0	O	C	CD LSI command/data control output
15	X $\overline{\text{STB}}$	O	C	Strobe output to CD LSI
16	NC			Not used
17	B $\overline{\text{DATA}}$	I/O	C	P-Bus serial data input/output
18	B $\overline{\text{SCK}}$	I/O	C	P-Bus serial clock input/output
19	X $\overline{\text{RST}}$	O	C	CD LSI reset output
20	CONT	O	C	Servo driver voltage control output
21	CD5VON	O	C	CD +5V power supply control output
22	VDCONT	O	C	VD power supply control output
23	CDMUTE	O	C	CD Mute control output
24	CDEJET	O	C	Loading Motor Eject control output
25	CDLOAD	O	C	Loading Motor Load control output
26	BMUTE	O	C	Bus mute output
27	C $\overline{\text{LAMP}}$	I		Disc clamp SW input
28	C $\overline{\text{RST}}$	O	C	Compressor IC reset output
29	CBANK0	O	C	Compressor IC bank set output 0
30	CBANK1	O	C	Compressor IC bank set output 1
31	CBANK2	O	C	Compressor IC bank set output 2
32	C $\overline{\text{CS}}$	O	C	Compressor IC chip select
33	Vss			GND electric potential
34	DSET	O	C	Disc set indicator light output
35	SCONT	O	C	Spindle double speed output
36-54	NC			Not used
55	ERREJ	I		Disc eject select input at the error
56	C $\overline{\text{SENS}}$	I		Open-flap close sense input
57	TXARI	I		TX output select input
58	BSRQ	I/O	C	P-Bus service request output
59	BRXEN	I/O	C	P-Bus reception enable status
60	R $\overline{\text{SET}}$	I		System reset input
61	NC			Not used
62	B $\overline{\text{RST}}$	I		P-Bus Reset input
63	D $\overline{\text{QSY}}$	I		TEXT decode read permission input
64-66	NC			Not used
67	A $\overline{\text{DNA}}$	O	C	A/D reference voltage supply control input
68	VDD			Positive power supply
69	X2			Main clock oscillator connection pin
70	X1			Main clock oscillator connection pin
71	IC(Vpp)			Internally Connected (Vss)
72	NC			Not used
73	T $\overline{\text{ESTIN}}$	I		Test program start input
74	AVpp			A/D analog power supply
75	AVREF0			A/D reference voltage input
76	EJTENS			Disc eject position sense input
77	DSCSNS			Disc set defect input

DEX-PIR,DEH-P946,DEX-PI

Pin No.	Pin Name	I/O	Format	Function and Operation
78	VDSENS	I		VD short sense input
79	TEMP	I		Temperature sense input
80	NC			Not used

*PD4931A

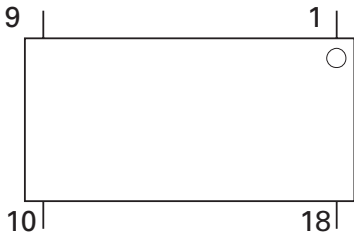
Format	Meaning
C	C MOS



● Pin Functions (PD0236AM)

Pin No.	Pin Name	I/O	Function and Operation
1	BCSEL	I	Bit clock fs select
2	DASEL	I	Bit expand select
3	NC		Not used
4	LRSEL		LRCKO polarity select
5	LRCKO	O	LRCKO output
6	NC		Not used
7	BCKO	O	Bit clock output
8	DATAO	O	Data output
9	GND		GND
10	VDD		Power supply terminal
11	LRCKI	I	LRCKO input
12,13	NC		Not used
14	DATAI	I	Data input
15	BCKI	I	Bit clock input
16	NC		Not used
17	SEL	I	Bit expand/input data output select
18	XRST	I	Reset input

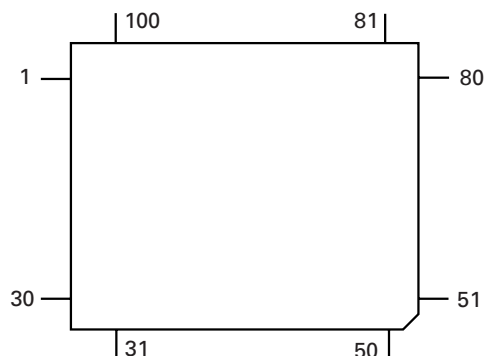
PD0236AM



● Pin Functions (PD6237B)

Pin No.	Pin Name	I/O	Format	Function and Operation
1-9	NC			Not used
10	RDX	O	C	Address bus read strobe output
11	VSS	O	C	Digital GND
12	WRX	O	C	Address bus write strobe output
13-18	NC			Not used
19	KYDT	O	C	Key data to system micro-computer
20	DPDT	I		Display data from system micro-computer
21	SCDCLK	I		Test program clock
22	DATAOT	O	C	Test program data
23	Vcc			Digital GND
24	DATAIN	I		Test program data
25,26	NC			Not used
27	C			Reference voltage
28-33	NC			Not used
34	AVcc			Analog power supply
35,36	NC			Not used
37	AVSS			Analog GND
38	ILM1	O	C	Illumination control output 1
39	ILM2	O	C	Illumination control output 2
40,41	NC			Not used
42	GND			Digital GND
43-48	NC			Not used
49	MD0	I		Mode pin 0 (PULL-UP)
50	MD1	I		Mode pin 1 (PULL-UP)
51	MD2	I		Mode pin 2 (PULL-DOWN)
52	HSTX	I		Hardware standby input (PULL-UP)
53	REMIN	I		Remote control pulse input
54-58	NC			Not used
59-62	KST0-KST3	O	C	Key scan output
63,64	NC			Not used
65	RES1	O	C	SED1450 Reset output
66	RES2	O	C	SED1526 Reset output
67-70	KDT0-KDT3	I	C	
71-73	NC			Not used
74	OSCK4K	O	C	SED1540 Clock output
75-77	NC			Not used
78	CS1	O	C	SED1526 Top lank chip select output
79	CS2	O	C	SED1526 Bottom lank chip select output
80	CS3	O	C	SED1540 chip select output
81	VSS			Digital GND
82,83	X0,X1			Oscillation circuit
84	Vcc			Digital power supply
85-92	AD00-AD07	I/O	C	External data bus input/output
92	AD07	I/O	C	External data bus input/output
93	A0	O	C	External address output
94-100	NC			Not used

*PD6237B

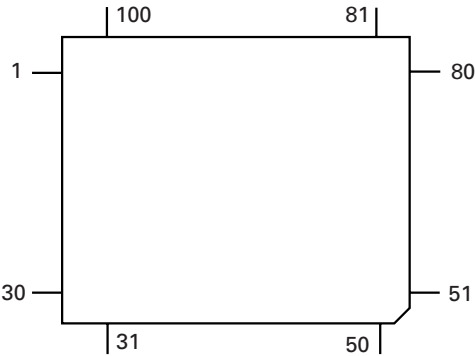


Format	Meaning
C	C MOS
N	N channel open drain

● Pin Functions (SED1540F0A)

Pin No.	Pin Name	I/O	Function and Operation
1-72	SEG71-0	O	Output for driving segment of LC
73	A0	I	Normally the lowest bit in the address bus of MPU is connected to distinguish between data and command.
74,75	OSC1,2		Terminal to connect resistor for internal oscillation
76	E(RD)	I	Enable clock input terminal of 68-system MPU Terminal to connect RD signal of 80-system MPU. While this signal is set to “L,” data bus of SED1540 will be output.
77	R/W(WR)	I	Input terminal of read/write control signal Terminal to connect write signal of 80-system MPU
78	VSS		0V connect to system GND
79-86	DB0-7		8-bit duplex data bus to be connected to a data bus of 8-bit or 16-bit standard MPU
87	VDD		Connect to +5V power supply VDD
88	RES		Can be set to initial setting by setting RES to “L” when using 68-system MPU, or by setting RES to “H” when using 80-system MPU.
89	FR	I/O	Input/output terminal of LC alternating signal
90	V3		Multilevel power supply for driving LC
91	CS	I	Chip select signal. Normally, signal obtained by decoding address bus signal is input.
92	NC		Not used
93	M/S		Terminal to select between master and slave operation to SED1540. Connect to VDD or VSS.
94,95	V2,1		Multilevel power supply for driving LC
96-99	COM0-3	O	Output for LC common (low) driving
100	SEG72	I/O	Output for driving segment of LC

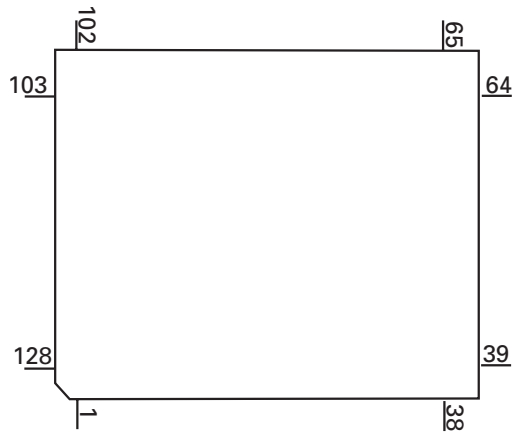
SED1540F0A



● Pin Functions (SED1526F0A)

Pin No.	Pin Name	I/O	Function and Operation
1-5	V1-V5		Multilevel power supply for driving LCD
6	VR	I	Voltage adjustment
7	VDD		+5V power supply
8	VOUT	O	Ascending voltage output
9	CAP2-	O	Ascending voltage capacitor connection
10	CAP2+	O	Not used
11	CAP1-	O	Ascending voltage capacitor connection
12	CAP1+	O	Ascending voltage capacitor connection
13	VSS		GND
14	M/S	I	IC master/slave operation select
15	SR2	I	MPU interface select, Parallel/serial data input select, Reset input select
16	SR1	I	MPU interface select, Parallel/serial data input select, Reset input select
17	WR	I	MPU WR signal connection
18	RD	I	MPU RD signal connection
19	CS2	I	Chip select signal
20	CS1	I	Chip select signal
21	A0	I	Data/command discrimination
22	FR	O	Not used
23	CL	O	Not used
24-31	D0-D7	I/O	Serial data bus
32-39	COM0-7	O	Output for LCD common driving
40-48	NC		Not used
49-110	SEG0-61	O	Output for driving segment of LCD
111-128	NC		Not used

SED1526F0A

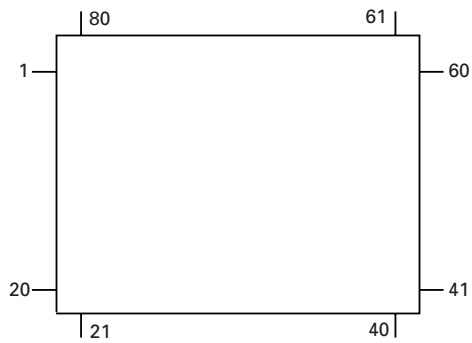


● Pin Functions (PD5445A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	SPCK	I	C	Connect to GND
2	NC			Not used
3	VST	O	C	Electronic volume strobe output
4	VDT	O	C	Electronic volume data output
5	VCK	O	C	Electronic volume clock output
6	CNVss	I		Connect to Vss
7	MCKRQ	I	C	CD unit MCK request input
8	NC			Not used
9	RESET	I		Micro-computer hard reset input
10	Xout	O		System clock output
11	Vss	I		GND
12	Xin	I		System clock input
13	Vcc	I		Micro-computer power supply 5V
14	NMI	I	C	Connect to Vcc
15	BMUTEIN	I	C	CD unit LR clock supply data
16	SPRQ	I	C	Connect to GND
17	BRST	I	C	P-Bus reset input
18	ADTEST	I	C	A.EQ test mode start
19	MICSNS	I	C	A.EQ mic connection data
20	ADSEL	O	C	Signal/A.EQ mic input select
21	MUTERQ	O	C	Hard mute output
22,23	NC			Not used
24	DSPOUT	O	C	DSP serial data output
25	DSPIN	I	C	DSP serial data input
26	DSPCK	O	C	DSP serial clock output
27	NC			Not used
28	BSO	O	C	P-BUS data output
29	BSI	I	C	P-BUS data input
30	BSCK	I/O	C	P-BUS serial clock input/output
31	NC			Not used
32	BSRQ	I/O	C	Service request input
33	BRXEN	I/O	C	Reception enable input
34,35	DSPERR1	I	C	Connect to GND
36	DZF1	I	C	Front digital 0 data input
37	DZF0	I	C	Rear digital 0 data input
38	DZF2	I	C	Sub woofer digital 0 data input
39	TESTIN	I	C	test program start/enable
40	DSPPW	O	C	DSP power supply switching
41	NGO	O	C	Noise gate ON/OFF
42-48	NC			Not used
49	FMUTE	O	C	Not used
50	SWMUTE	O	C	Not used
51	VOICE	I	C	Connect to GND
52-58	NC			Not used
59	IFHIZ	I	C	DSP micro-computer port Hiz set (test mode port)
60	DSRST	O	C	TC9331 hard reset
61	PD	O	C	AK7712 power down
62	AKRST	O	C	AK7712 reset
63	DSPCS2	O	C	AK7712 chip select
64	DSPCS1	O	C	TC9331 chip select
65	DSPRQ	O	C	AK7712 data output request
66	DSPCD	O	C	TC9331 command/data
67	DSPRDY	I	C	AK7712 data ready
68	DSPACK	I	C	DSP data write ready/ACK
69	SMODE	O	C	AK7712 master/slave
70	EMPIN	I	C	CD unit emphasis data input
71	EMPOUT	O	C	DAC emphasis output

Pin No.	Pin Name	I/O	Format	Function and Operation
72	LRCKK	O	C	LRCK/BCLK select
73	SDATAK	O	C	Audio data select:LRCKK inverted gate
74	NOISE	I		ASL noise input
75	AVss	I		Connect Vss
76	MCKOUT	O	C	CD MCLK gate control
77	Vref	I		AD select reference voltage input
78	AVcc	I		Connect to Vcc
79	MO/ST	I	C	Connect to GND
80	NC			Not used

*PD5445A



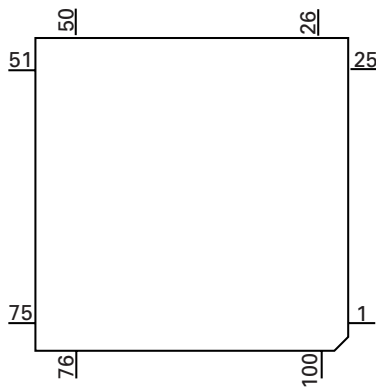
Format	Meaning
C	C MOS

● Pin Functions (AK7712AVT)

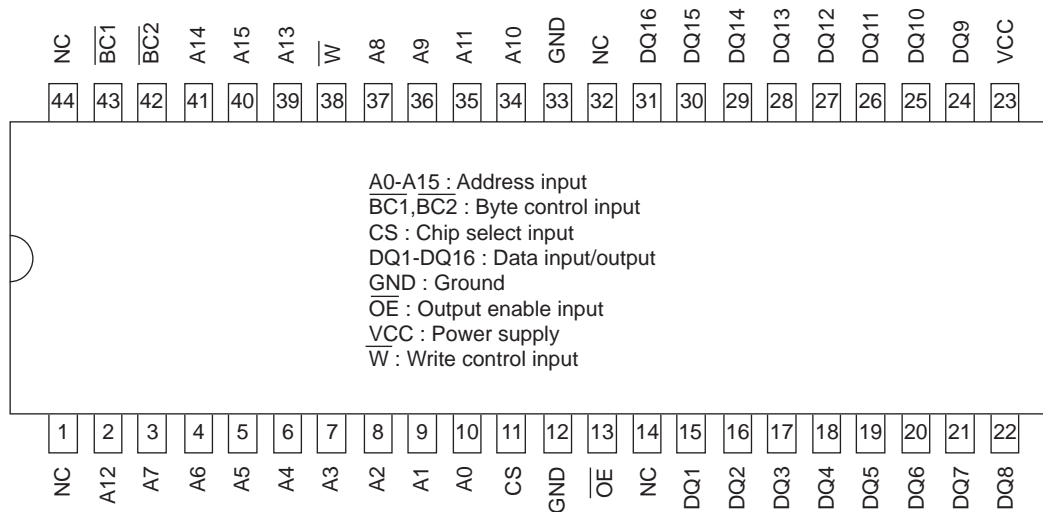
Pin No.	Pin Name	I/O	Function and Operation
1	TSTI1	I	Test input 1
2	OPCL	I	ADC,DAC connection select
3	PDAD	I	AD reset control
4	PDDA	I	DA reset control
5	PD	I	Power down
6	RST	I	Reset input
7	TSTIO1	I/O	Test input/output 1
8	TSTIO2	I/O	Test input/output 2
9	TSTIO3	I/O	Test input/output 3
10,11	DVB		Digital PCB power supply
12	SDIN2	I	Serial data input 2
13	SDAD	O	Serial data output 2
14	SDOUT2	O	Serial data output 3
15	SDDA	I	Serial data input 3
16	SDDA2	I	Serial data input 4
17	SDOUT3	O	Serial data output 4
18	SDOUT1	O	Serial data output 1
19	SDIN1	I	Serial data input 1
20	SMODE	I	Interface clock select
21	BCLK	I/O	Clock input/output for serial data input signal input/output
22	LRCK	I/O	L/R channel identification signal input/output
23	CLK0	O	Master clock output
24	DVDD		Digital power supply
25	DVSS		Digital GND
26	XTI	I	Clock input
27	XTO	O	Oscillator output
28	TSTI2	I	CLKO output control
29	CS	I	Chip select input for micro-computer interface
30	WRQ	I	Command register reset input for micro-computer interface
31	DVSS		Digital GND
32	DVDD		Digital power supply
33	SCLK	I	Serial data input clock input for micro-computer interface
34	SI	I	Serial data input for micro-computer interface
35	WRDY	O	Data write ready output for micro-computer interface
36	DRDY	O	Output data ready output for micro-computer interface
37	SO	O	Serial data output for micro-computer interface
38	CASRF	O	External DRAM CAS/pseudo SRAM refresh
39	RASCE	O	External DRAM RAS/pseudo SRAM-ce
40	WE	O	External SRAM/pseudo SRAM/DRAM write signal output
41-48	A16-A9	O	External RAM address output
49	DVSS		Digital GND
50	DVDD		Digital power supply
51-59	A8-A0	O	External RAM address output
60	OE	O	External SRAM/pseudo SRAM/DRAM output enable signal output
61-68	IO0-IO7	I/O	External RAM data input/output
69	DVSS		Digital GND
70	DVDD		Digital power supply
71	DZFSET	I	Zero position detect setup
72	DVSS		Digital GND
73	DVDD		Digital power supply
74,75	DVB		Digital PCB power supply
76	DZF2	O	Zero input detect (DAC2)
77	DZF1	O	Zero input detect (DAC1)
78	NC		Not used
79	AVB		Analog PCB power supply
80	AOUTR2	O	DAC2 Rch analog output 2
81	AOUTL2	O	DAC2 Lch analog output 2
82	NC		Not used

Pin No.	Pin Name	I/O	Function and Operation
83	AOUTR1	O	DAC1 Rch analog output 1
84	AOUTL1	O	DAC1 Lch analog output 1
85	VRDAL	I	DAC reference voltage input
86	AVSS		Analog GND
87	AVDD		Analog power supply
88	VRDAH	I	DAC reference voltage input
89	NC		Not used
90	AINR-	I	ADC Rch analog inverted input
91	AINR+	I	ADC Rch analog input
92	AINL-	I	ADC Lch analog inverted input
93	AINL+	I	ADC Lch analog input
94	VCOM	O	Common voltage
95	VRADL	I	ADC reference voltage input
96	AVSS		Analog GND
97	AVDD		Analog power supply
98	VRADH	I	ADC reference voltage input
99	AVB		Analog PCB power supply
100	NC		Not used

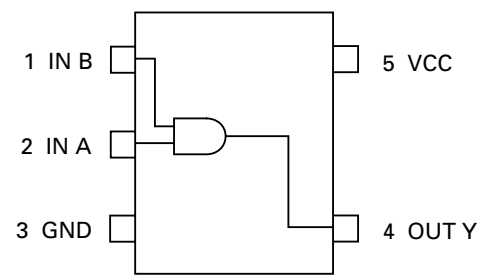
AK7712AVT



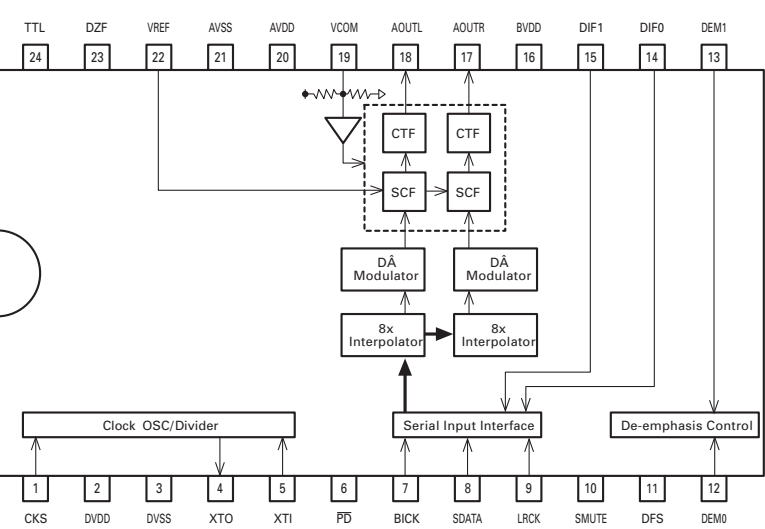
GGC1325(M5M51016BTP-70LL)



TC7S08FU



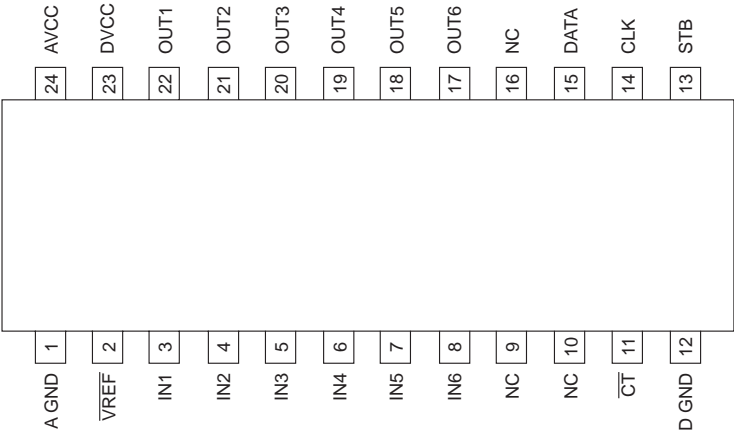
PE2001AF



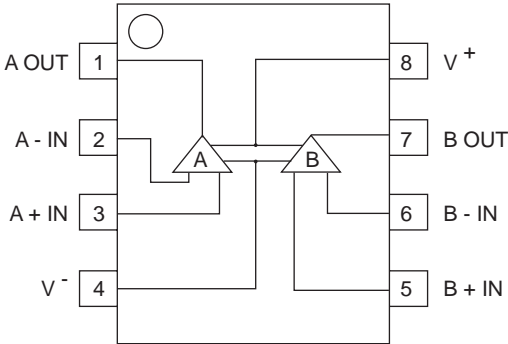
● Pin Functions (PM0017AM)

Pin No.	Pin Name	Function and Operation
1	AGND	Analog GND
2	VREF	Reference voltage noise cut
3-8	IN1-6	CH1-6 input
9,10	NC	Not used
11	CT	Terminal to set forced switching time
12	DGND	Digital GND
13	STB	Strobe input
14	CLK	Clock input
15	DATA	Data input
16	NC	Not used
17-22	OUT6-1	CH6-1 output
23	DVCC	Digital GND
24	AVCC	Analog GND

PM0017AM



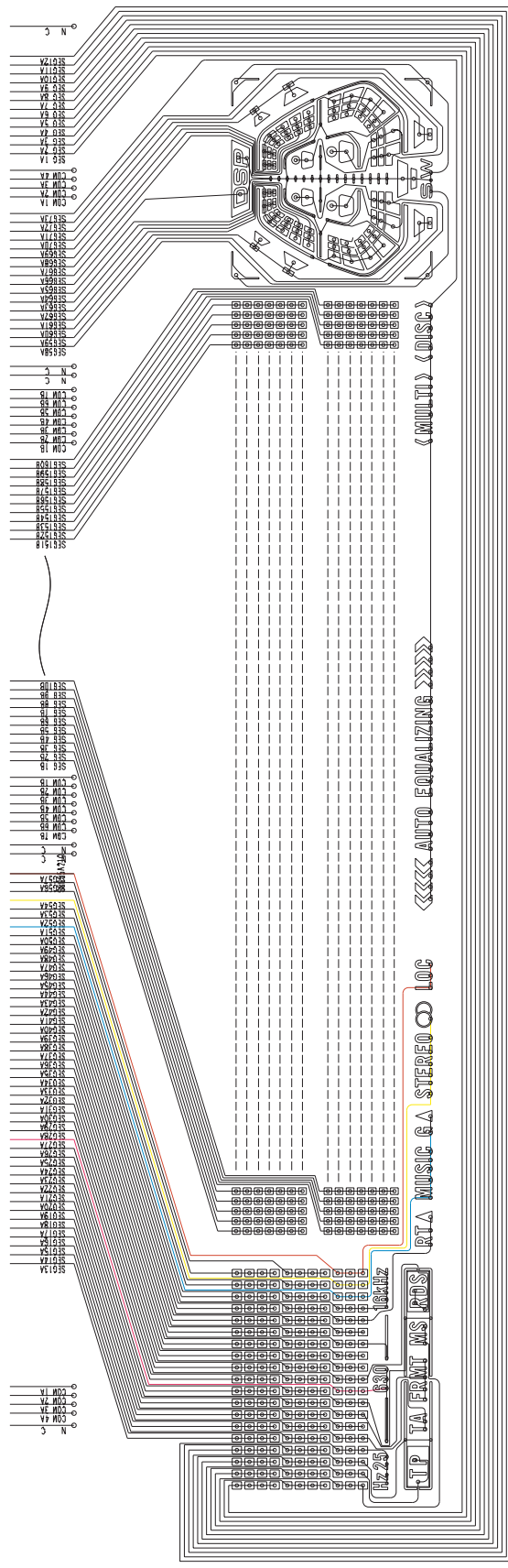
NJM4580M



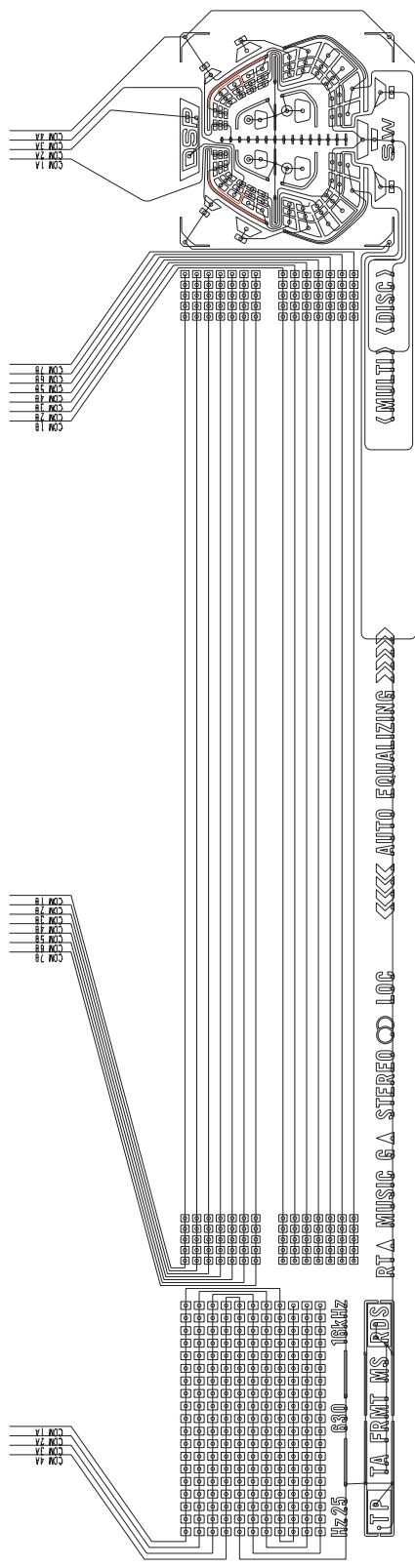
7.1.2 DISPLAY

● CAW1470 (DEX-P1R/UC)

SEGMENT

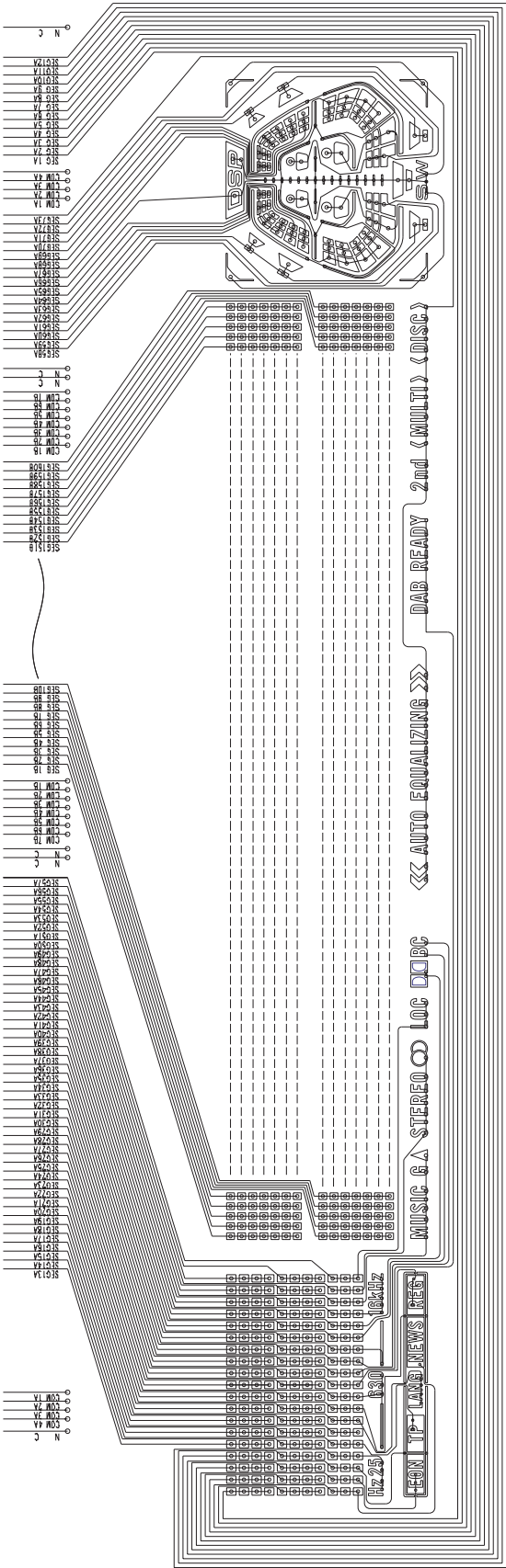


COMMON

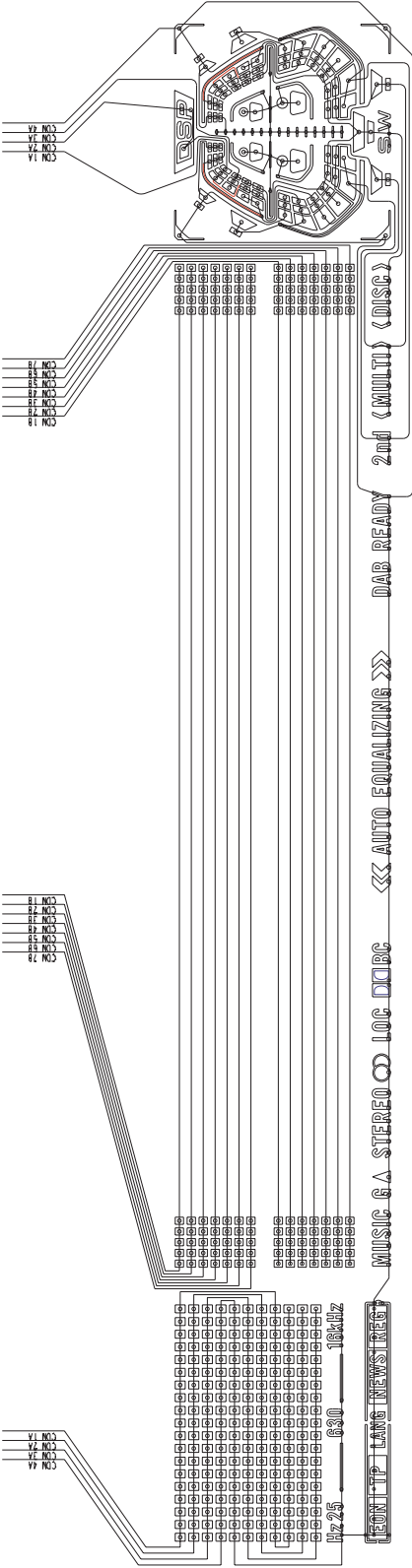


● CAW1471 (DEH-P946/ES,DEX-P1/ES)

SEGMENT



COMMON

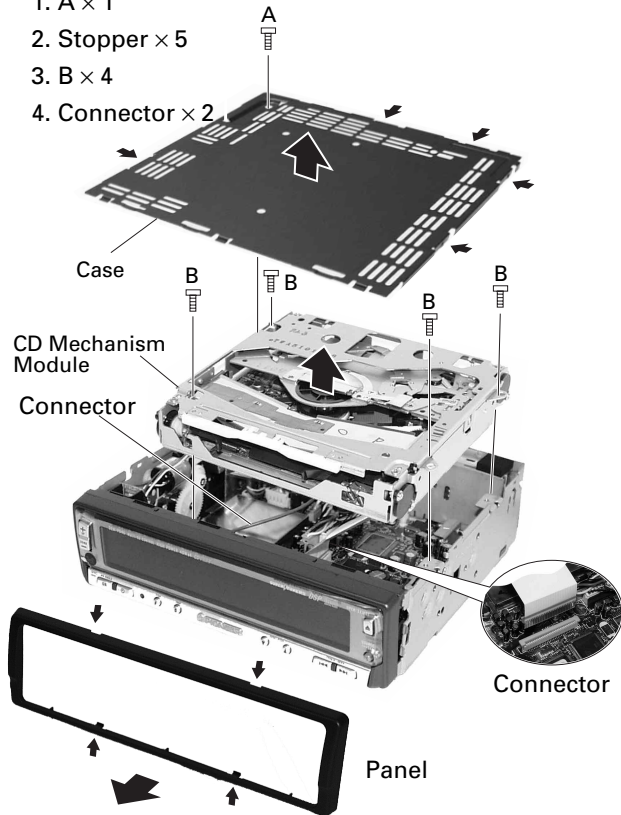


7.2 DIAGNOSIS

7.2.1 DISASSEMBLY

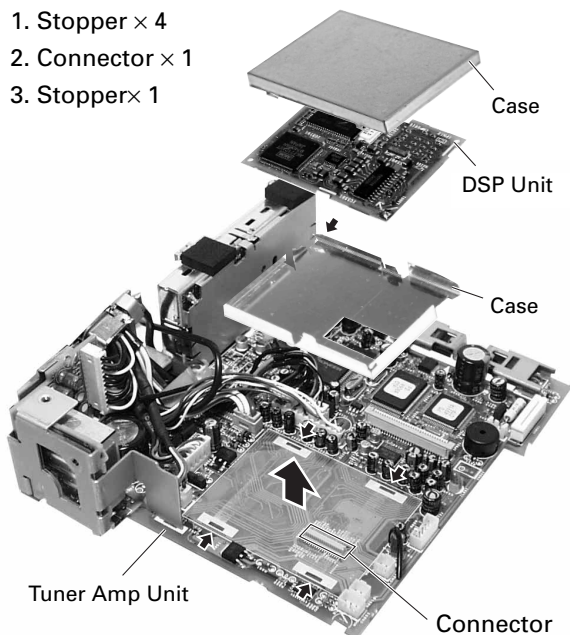
● Removing the Case, Panel and CD Mechanism Module

1. A × 1
2. Stopper × 5
3. B × 4
4. Connector × 2



● Removing the DSP Unit

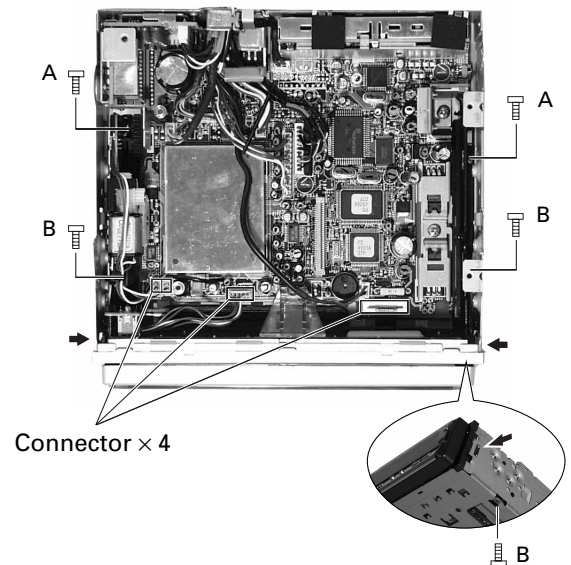
1. Stopper × 4
2. Connector × 1
3. Stopper × 1



Note : Each five place stopper are soldered.

● Removing the Panel Assy

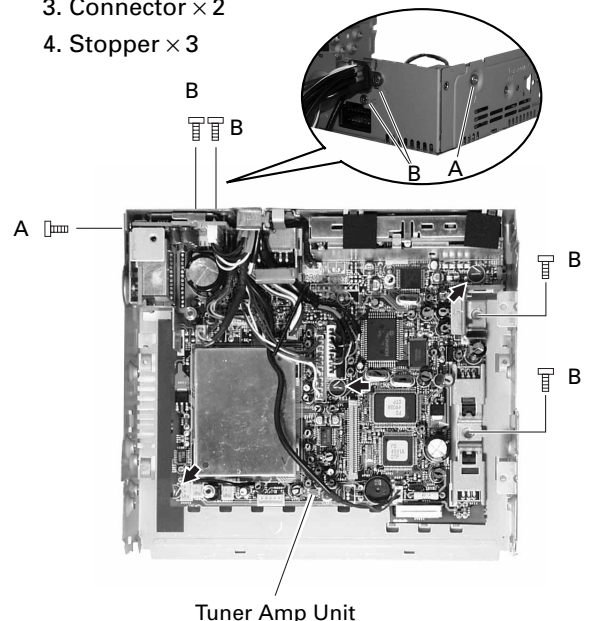
1. A × 2
2. B × 2
3. Connector × 4
4. Stopper × 2



Note : Remove the Screw B from outside the bottom.

● Removing the Tuner Amp Unit

1. A × 1
2. B × 4
3. Connector × 2
4. Stopper × 3



7.2.2 TEST MODE

● Error Number Indication

The system enters error mode to display the cause of error with a number when the system cannot operate CD or stops operation because of an error. The purpose of this measure is to reduce frequency of calls from users asking help for problems that are caused by incorrect operation by user, as well as to assist analysis and repair in servicing.

(1) Basic means of display

- An error code will be written on DMIN (minute area for display) and DSEC (second area for display) when CSMOD (CD mode area for system) is SERBORM.

The same data will be written on DMIN and DSEC.

DTNO shall be blank as before.

- Display examples of the head unit

Error codes will be displayed as shown below, depending on the capability of LCD. An error number will be displayed in the place of "xx."

- 8-digit display ERROR-XX

With OEM products, display of error codes shall be according to the specifications of the manufacturer.

(2) Error codes

Error code	Classification	Description	Cause / Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
19	ELECTRIC	Improper T.BAL adjustment	Value of T.BAL adjustment is out of parameter.
30	ELECTRIC	Search time out	Failed to reach target address →Carriage / tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

(3) Number of error codes

One hundred error codes (00 to 99) will be available.

(4) Remarks

- Error codes are not displayed for the mechanism alone (because CD is OFF when an mechanical error is generated).
- When the system cannot read TOC, it is not deemed as an error, and the system continues operation to a certain extent.
- Be sure to take measures as shown in the display examples whenever designing a new head unit.
- The first digit of an error code has a meaning as follows:
 - 1X : Error related to setup
 - 3X : Error related to the search function
 - AX : Other errors

● New Test Mode

When S-CD is specified as the source, basically the system plays as normal operation. After setup, the system displays the cause and time (absolute time) of an error if focus search is improper, spindle lock is removed, subcode cannot be read, or sound is skipped. During setup, the system displays the operation status of CD control software (internal RAM : CPOINT). The purpose of these displays and functions are to detect aging of servicing, as well as to improve efficiency of defect analysis.

(1) How to enter NEW TEST Mode

1. Reset the system by pressing keys (depending on the product) to enter the conventional Test mode.
 2. Select S-CD as the source by pressing the source or CD key, then inserting a disc. Confirm that the regulator is OFF. Press the Switch Jump Mode key.
 3. After that, the system will stay in the new Test mode, regardless of whether S-CD is OFF or ON.
- To exit from the new Test mode, reset the system.
See the test mode flow chart Page 95.

(2) Relations of keys

keys	Test Mode		New Test Mode	
	Regulator OFF	Regulator ON	PLAY in progress	Error Protection
BAND	To Regulator ON	To Regulator OFF	—	Time / Err No.select
→	—	FWD-Kick	FF / TR+	—
←	—	REV-Kick	REV / TR-	—
1	—	Tracking Close	Scan	—
2	—	Tracking Open	RPT	—
3	—	Focus Close	RDM	—
—	—	Focus Open	—	—
—	—	Jump Off	—	—
6	To New Test Mode	Jump Mode select	Auto / Manu	T.No. / Time select

Operations, such as EJECT, CD ON/OFF are performed normal mode.

(3) Error Cause, Error Code

Code	Classification	Description	Cause / Details
40	ELECTRIC	Put out of focus	FOK=Low has continued for 100 msec →Damaged or soiled disc. vibration, or detective servo
41	ELECTRIC	Spindle unlock	LOCK=has continued for 100 msec →Damaged or soiled disc. vibration, or detective servo
42	ELECTRIC	Failed to read subcode	The system could not read subcode for 100 msec →Damaged or soiled disc. vibration, or detective servo
43	ELECTRIC	Sound skipped	The last-address-memory function activated →Damaged or soiled disc. vibration, or detective servo

There will be no mechanical error during aging. Error codes should be displayed in the same manner as in Normal mode.

● S-MD Test Mode

This mode is used by service personnel to solve problems when the mechanism is malfunctioned. Normally users do not enter S-MD Test mode.

(1) Test mode input

1) How to input

Input in the same manner as with inputting in Test mode of CDS, CDM, etc.

To enter Test mode, reset the system and set ACC to ON or connect the detach grill, then press xx and xx keys (see CD) simultaneously. Then, use the SOURCE key (or TAPE or SOURCE key on the remote control unit) to activate MDS source, and input in MDS Test mode.

Normally, the system does not change to MDS source when no disc is loaded. In Test mode, the system changes to MDS source without a disc loaded, and enters Test mode.

2) Beep sound

- With '97 autumn or later models, the system beeps to confirm that the system has entered Test mode.

(2) Canceling Test mode

1) Internal MDS (P-BUS)

- With '97 autumn or later models, reset the system, set ACC to OFF, BACKUP to OFF, or disconnect the detach grill to cancel Test mode. (Set ctestf to 0 if Clear RAM is called as preprocessing of standby.)

2) Slave MDS (IP-BUS)

In addition to the method mentioned in 1), Slave MDS must be reset, too.

(3) Effective keys in Test mode

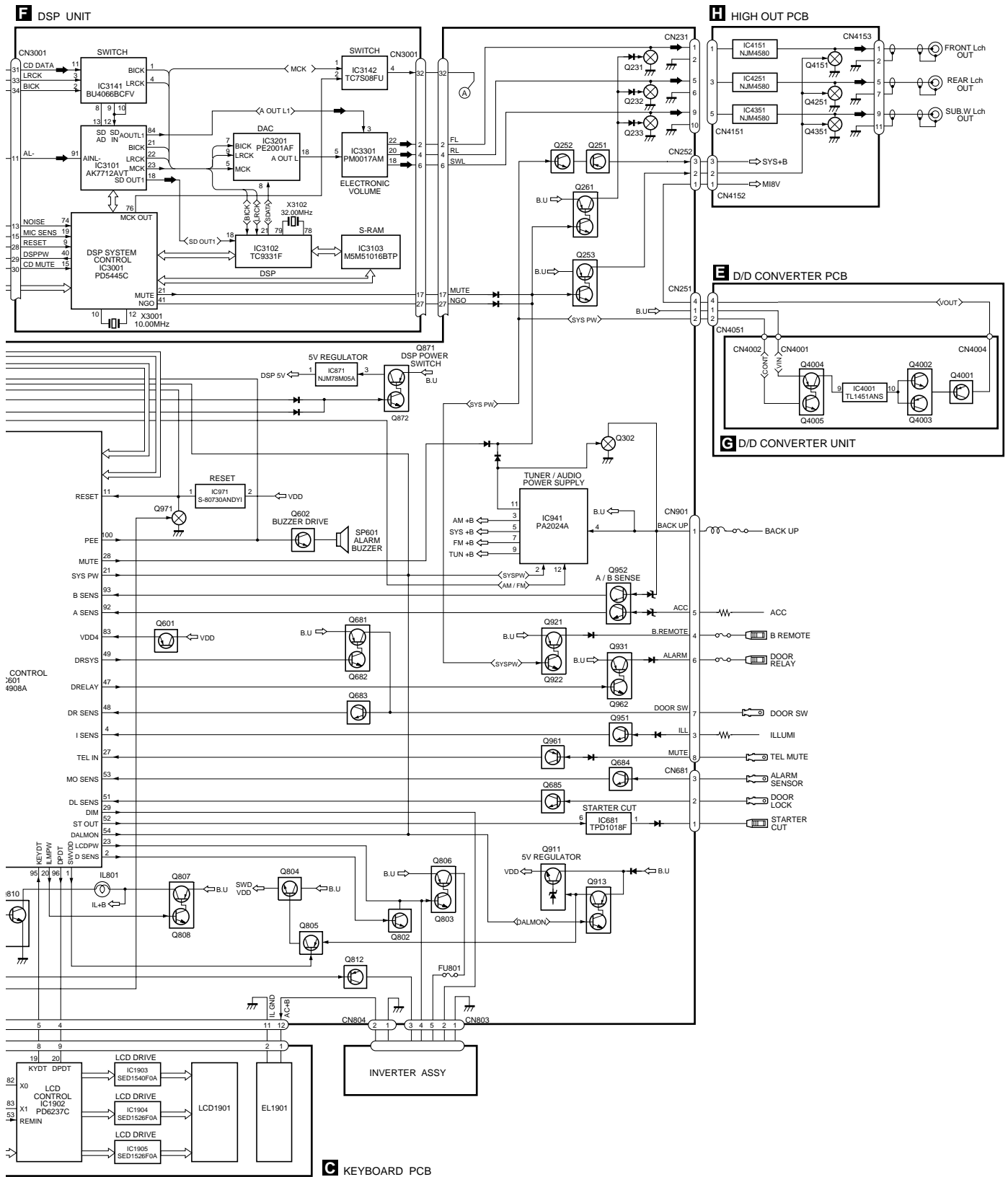
In Test mode, some keys require special key decoding.

Key name	Key operation
BAND	To turn the POWER ON/OFF
→	To move thread, jump, change set values, etc
←	To move thread, jump, change set values, etc
▲	To advance MENU
▼	To reverse MENU
PGM	To enter Test STOP mode
FUNCTION	To select a MENU
DISP	SRV mode (To change the disc type.)

Keys not provided on the main unit can be found on the remote control unit.
Operation specifications and details are in accordance with the specifications of MDS.

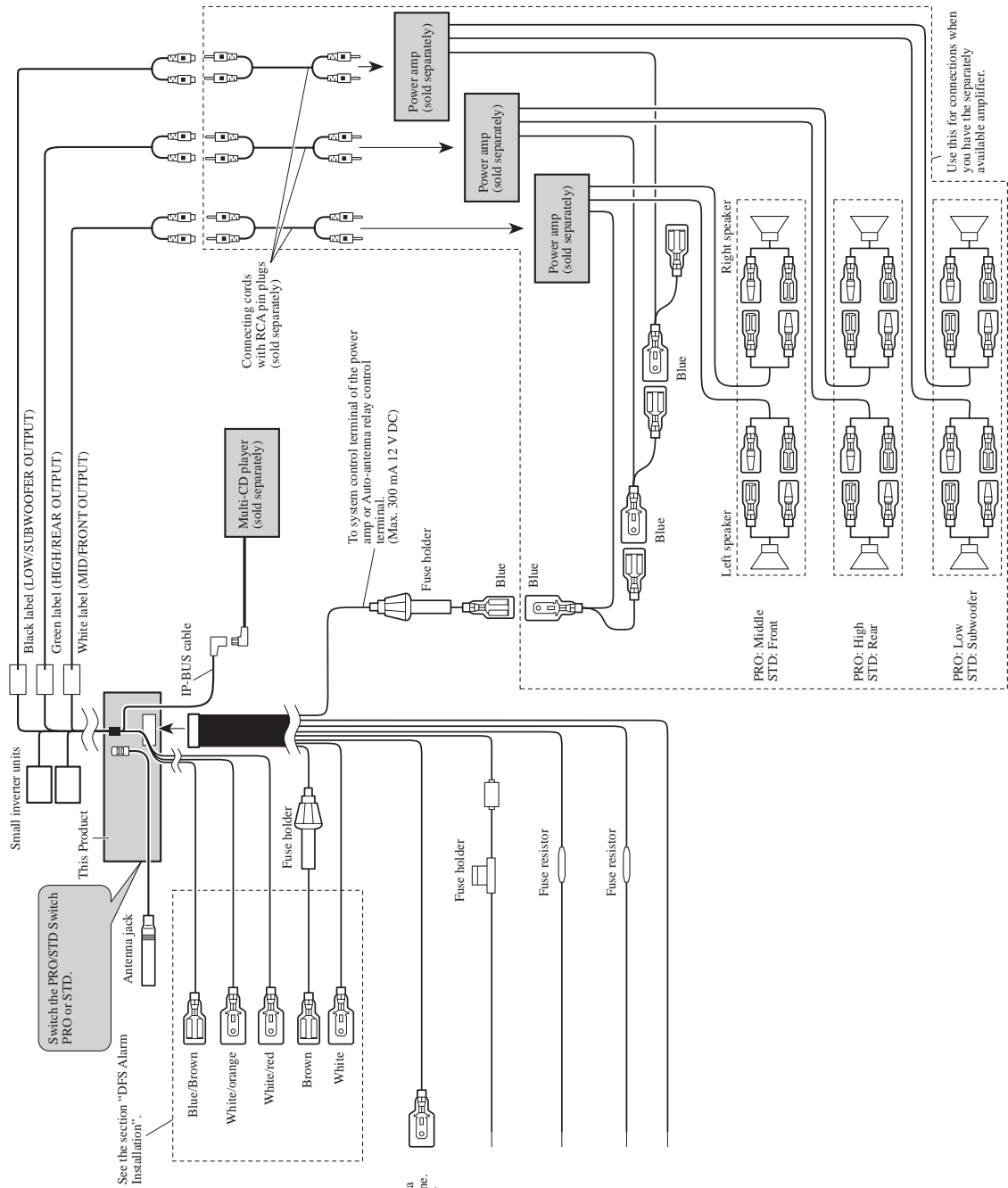
● **SYSTEM Test Mode**

Function	Operation Key · Trigger	Remarks	Display
Display Test Mode	Set Acc to ON or connect the detach grille, while pressing the S/A and → keys simultaneously. Then, press the S/A and → keys simultaneously, while the source is ON. To cancel Display Test Mode, press the Reset button.	Immediately after resetting the system	All LCDs light up.
TEST MODE	Set ACC to ON or connect the detach grille, while pressing the CLOCK and ← keys simultaneously. To cancel Test Mode, set ACC to OFF or press the Reset button.	Immediately after resetting the system	



8. OPERATIONS AND SPECIFICATIONS

8.1 OPERATIONS



Yellow/black
If you use cellular telephone, connect it via the Audio Mute lead on the cellular telephone. If not, keep the Audio Mute lead free of any connections.

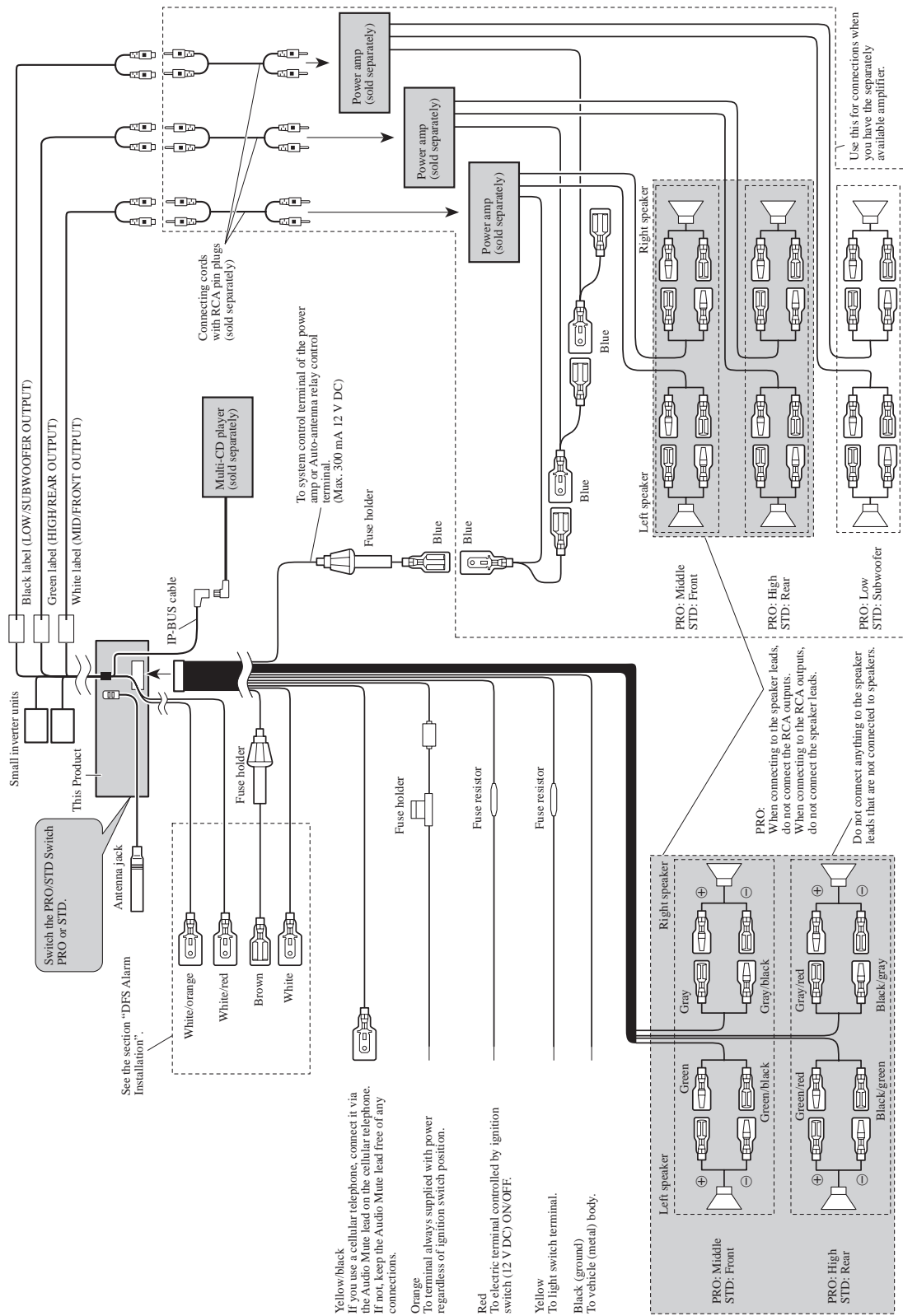
Orange
To terminal always supplied with power regardless of ignition switch position.

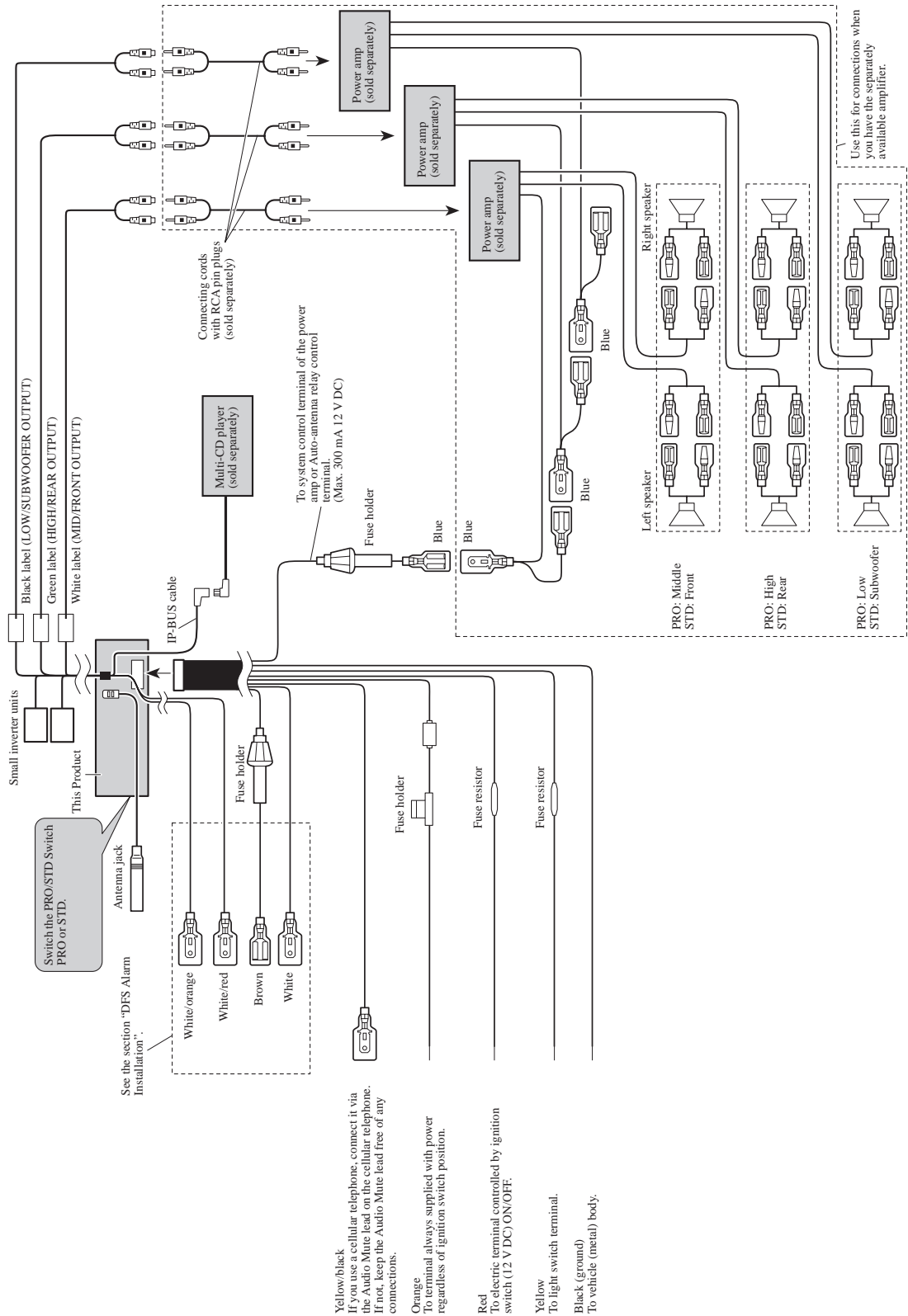
Red
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

Yellow
To light switch terminal.

Black (ground)
To vehicle (metal) body.

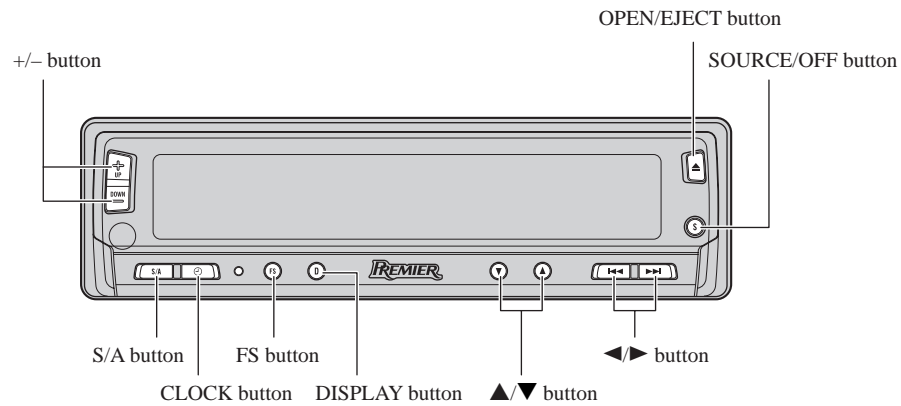
● Connection Diagram (DEH-P946/ES)



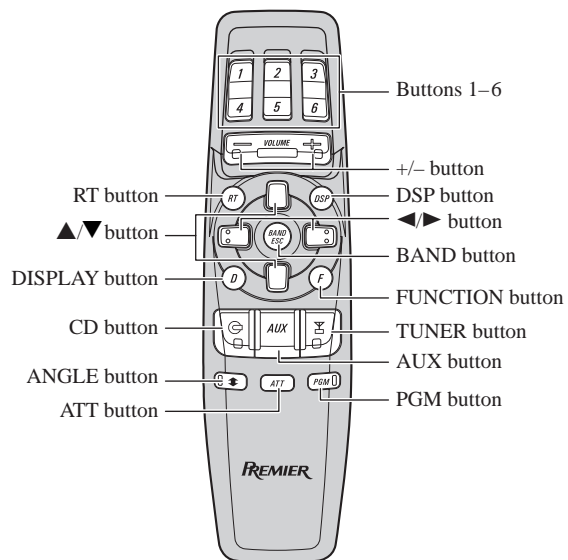


Key Finder

Head Unit

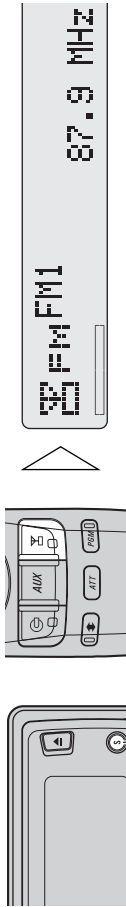


Remote Controller



Basic Operation of Tuner

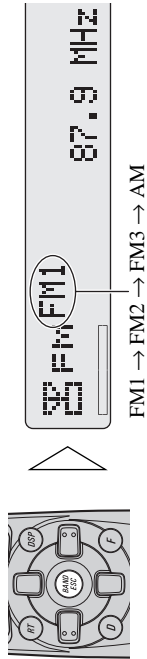
1. Select Tuner.



Each press
changes the Source ...

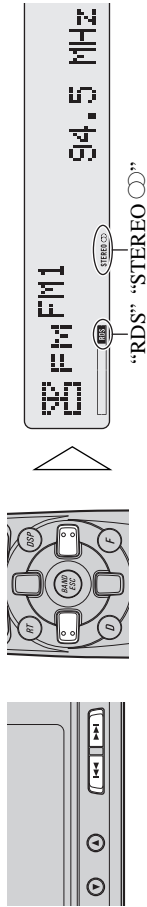
The program service name or frequency appears on the display.

2. Select the desired band.



FM1 → FM2 → FM3 → AM

3. Tune the receiver to a higher or lower frequency.



“RDS” “STEREO”

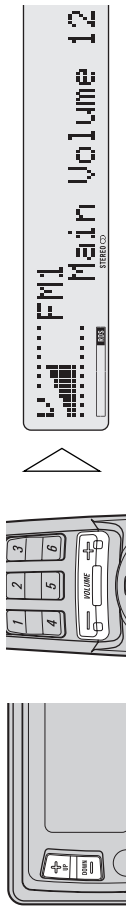
This product's tuner lets you select the tuning by changing the length of the time you press the button.

Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning (automatically)	0.3–2 seconds
Manual Tuning (continuously)	2 seconds or more

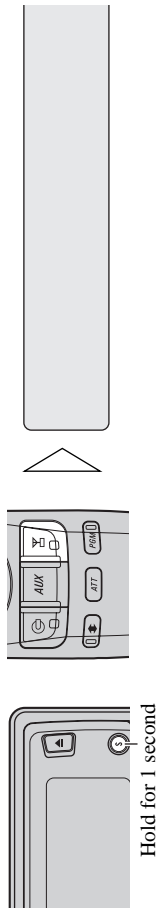
Note:

- “STEREO” indicator lights when a stereo station is selected.
- To select a weak broadcasting station that cannot be tuned in with the Seek Tuning function, tune in with Manual Tuning.
- “RDS” indicator lights when a RDS station is received.

4. Raise or lower the volume.



5. Turn the source OFF.

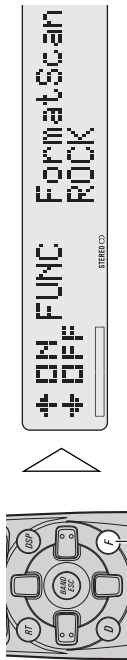


Hold for 1 second

Entering the Function Menu

In this menu you can select tuner functions.

- Select the desired mode in the Function Menu.



Each press
changes the Mode ...

Each press of the FUNCTION button selects the mode in the following order:

FormatScan → FRMT-BSM → APF → Multi ST* → Local → TA** → SeekSelect

- * You can select the “Multi ST” mode, only when a multi-station is received.
- ** During AM reception, you cannot switch to the TA mode.

To cancel the Function Menu, press the BAND button.

Note:

- Modes other than the Local mode are for RDS/ID LOGIC functions. Refer to “Using RDS/ID LOGIC” for details and instructions on how to use these functions.
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Using RDS/ID LOGIC

This product features a tuner with RDS and ID LOGIC functions.

RDS (Radio broadcast Data System) is a system that transmits broadcast station information together with FM programs.

ID LOGIC is a database of information about AM and FM stations

throughout the United States and in some parts of Canada and Mexico.

To enable you to take advantage of this information, this product features a wide range of functions.

You get display of Broadcast Station Call Sign, Program Service Name and Format (Program type), tuning to stations broadcasting a desired format, automatic tuning to traffic information and emergency broadcasts, and radio text display.

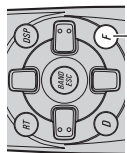
Note:

- The RDS service does not provide AM broadcast information.
- The RDS service may not be provided by all FM stations.
- Sections 1 and 2 provide explanations concerning menus for RDS/ID LOGIC operations. Sections 3 to 10 explain basic operations, and Sections 11 to 14 deal with special functions.
- Before using RDS/ID LOGIC functions, you must first perform Location Set-up.

1. Entering the Function Menu

In this menu you can select RDS/ID LOGIC functions.

- **Select the desired mode in the Function Menu.**



Each press changes the Mode ...



Each press of the FUNCTION button selects the mode in the following order:

Format Scan → FRMT-BSM → APF → Multi ST* → Local** → TA → Seek Select

* You can select the "Multi ST" mode, only when a multi-station is received.

**LOCAL is a normal tuner function.

To cancel the Function Menu, press the BAND button.

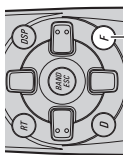
Note:

- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

2. Entering the Detailed Setting Menu

In this menu you can perform Location Set-Up, Update and PGM button settings.

- **Enter the Detailed Setting Menu.**



Hold for 2 seconds



Each press of the FUNCTION button selects the mode in the following order:

Location → SET APF → Relocation → Update → PGM-key

To cancel the Detailed Setting Menu, press the BAND button.

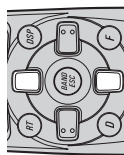
Note:

- You can cancel the Detailed Setting Menu by pressing the FUNCTION button again for 2 seconds or more.

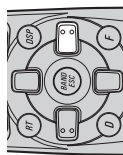
3. Location Set-Up

Set the name of the country, state and city (nearest city to the vehicle position) that the vehicle is positioned in.

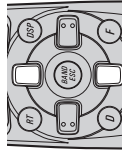
1. **During FM reception, select the Location Set-Up mode (Location) from the Detailed Setting Menu.**



3. **Advance to next selection.**

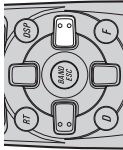


4. Select the state.

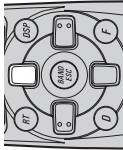


States are stored alphabetically.

5. Advance to next selection.



6. Using the APS (Auto Position Setting) function, automatically set the city the vehicle is located in.

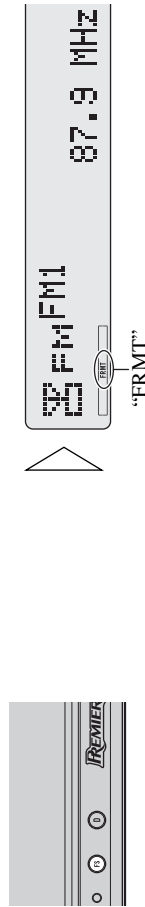


4. Format Tuning

This product allows you to look for a station by format (program type). Formats are divided into 8 types, such as ROCK, COUNTRY, NEWS and TALK.

Group Formats	Corresponding Formats
ROCK	TOP 40
	CLS ROCK
	ROCK
	SFT ROCK
EASY LIS	SOFT
	ADLT HIT
	OLDIES
	CLASSICL
CLS/JAZZ	JAZZ
	NOSTALGA
	PUBLIC
	COUNTRY
R and B	R AND B
	SOFT R/B
	SPORTS
	NEWS
INFO	TALK
	INFORM
	PERSNLTY
	REL MUSC
RELIGION	REL TALK
	LANGUAGE
	MISC
	MISC

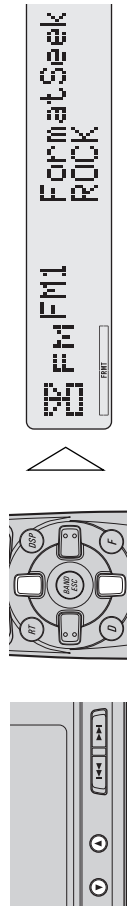
1. Switch to the "Format" station selection mode.



Each press of the FS button changes the method in the following order:

Format → Frequency

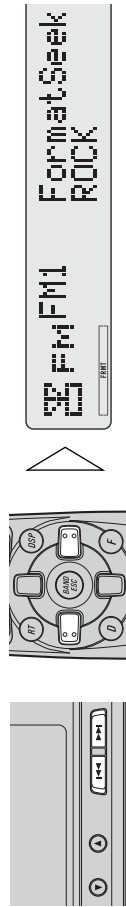
2. Select a group format.



A station broadcasting a program with a different group format from the format of the currently received broadcast station is selected.

Press the ▲ button to select stations with the next group format, and the ▼ button to select stations with the preceding group format.

3. Select a station.



A station broadcasting a program with the same group format as the currently received broadcast station is selected.

Press the ▲ button to select a station with a higher frequency and the ▼ button to select a station with a lower frequency.

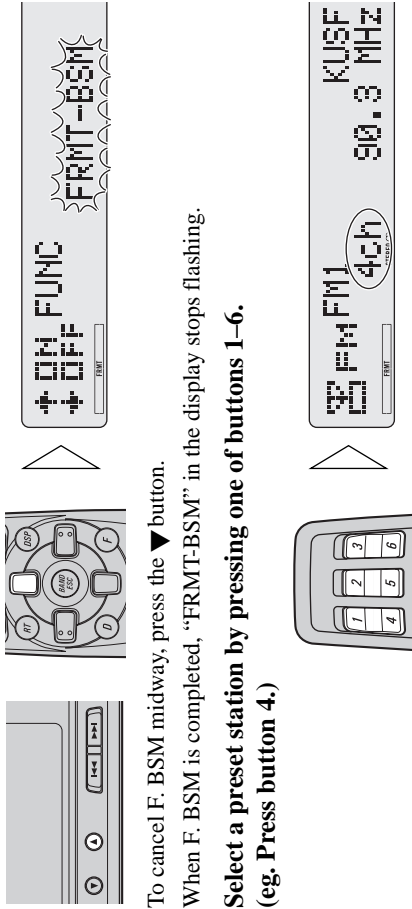
Note:

- If you perform operation 3 during reception of a broadcast station with no format data, "NO FORMAT" is displayed.
The tuner then returns to the prior frequency.
- "NO STATION" is displayed if no station with the selected group format can be received.
The tuner then returns to the prior frequency.
- If the set vehicle location is different from the current location, the selected group format and the format of the program may differ.
- You can also switch the station selection mode when in the Function Menu Seek Select mode.

5. F. BSM (Format Best Stations Memory)

This function automatically places receivable stations into presets 1–6, in order from strongest to weakest, for a selected group format.
Firstly, choose your desired group format as described in “Format Tuning”.

- 1. Select the F. BSM mode (FRMT-BSM) in the Function Menu.
- 2. Start F. BSM.



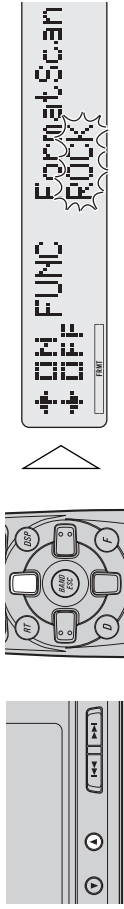
- To cancel F. BSM midway, press the **▼** button.
When F. BSM is completed, “FRMT-BSM” in the display stops flashing.
- 3. Select a preset station by pressing one of buttons 1–6.
(eg. Press button 4.)

- Note:**
- In areas where there are not 6 or more stations covered by format tuning, the previously stored contents may be retained.
 - If “MS” is displayed, refer to the “11. Multi-Station” section.

6. F. SCAN (Format Scan)

This function allows you to scan receivable stations with the same format type as that of the present station that you are listening to.

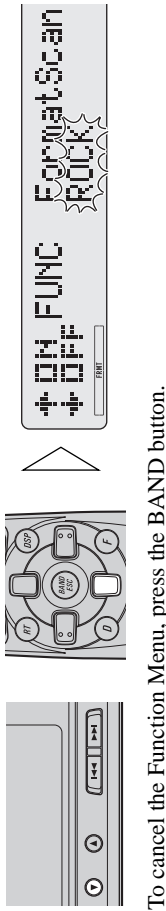
- 1. Select the F. SCAN mode (Format Scan) in the Function Menu.
- 2. Start F. SCAN.



Stations with the same format are tuned one after another at 8 second intervals.

- 3. Cancel the scan function enables you to remain tuned to the present station.

If the Function Menu has been canceled automatically, select the F. SCAN mode in the Function Menu again.

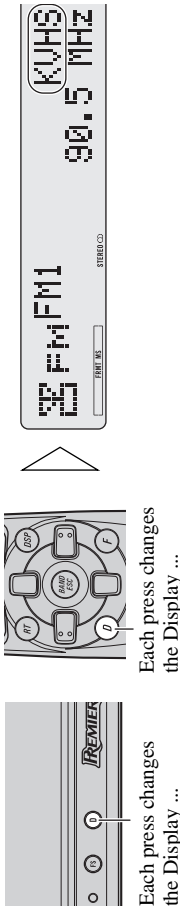


To cancel the Function Menu, press the BAND button.

7. Display Modes

This function can be used to scroll through the various display modes for Call Sign, Program Service Name and Format.

- Select the desired display mode.



Each press changes the Display ...
Each press changes the Display ...

Each press of the DISPLAY button changes the display in the following order:

- Call Sign (Callsign) → Program Service Name (PS) → Format (Format)
- Note:**
- You cannot switch to these displays if Call Sign, Program Service Name and Format data for the station you are receiving are not stored in the tuner.
 - Program Service Name is RDS service data, so it is not displayed during AM reception.
 - If the set vehicle position is different from the current location, a different Format and Call Sign from those of the tuned-in station may be displayed.
 - The program of some stations may differ from that indicated by their Format.

8. TA Function

The TA (Traffic Announcement standby) function lets you receive traffic announcements automatically, no matter what source (tuner, built-in CD player or multi-CD player) you are listening to. The TA function can be activated for a TP station (a station that broadcasts traffic information).

Note:

- The TA function uses RDS service data, so it does not operate during AM reception.

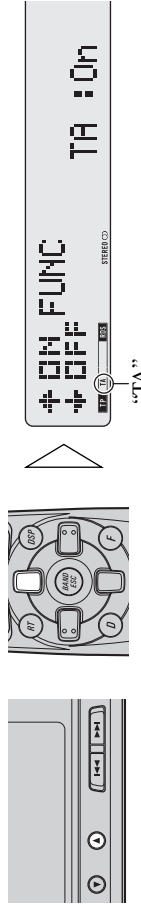
Activating/Deactivating the TA Function

1. Tune in a TP station.

The "TP" indicator lights when the tuner is tuned to a TP station.

2. Select the TA mode (TA) in the Function Menu.

3. Activate the TA function.



The "TA" indicator lights, indicating that the tuner is waiting for traffic announcements.

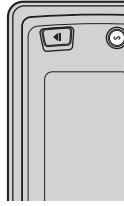
Repeat the preceding operation when no traffic announcement is being received to deactivate the TA function.

Note:

- You can also switch the TA Function ON/OFF in the Function Menu.
- The system switches back to the original source following traffic announcement reception.
- The TA function can be activated from the built-in CD player or multi-CD player mode if the tuner was last set to the FM band but not if it was last set to the AM band.
- In the built-in CD player or multi-CD player mode, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 seconds after "TP" disappears from the display. (During seek operation, "TP" flashes.)

Canceling Traffic Announcements

- Press the SOURCE/OFF button while a traffic announcement is being received to cancel the announcement and return to the original source.

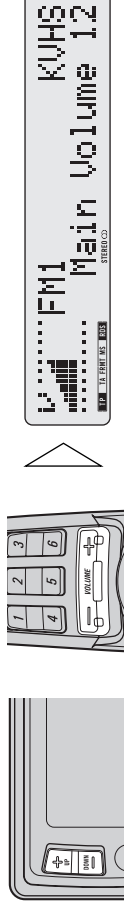


The announcement is canceled but the tuner remains in the TA mode until the TA function is deactivated.

Adjusting the TA Volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

- Set the volume by adjusting it during reception of a traffic announcement.



The newly set volume is stored in memory and recalled for subsequent traffic announcements.

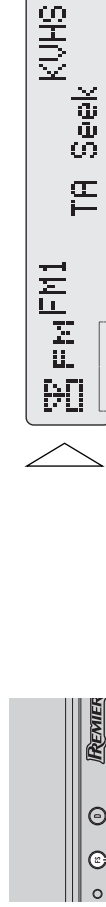
Note:

- Volume Attenuator is canceled if a traffic announcement is received in the Volume Attenuator mode.

TA SEEK

TA seek automatically searches for and receives stations currently broadcasting Traffic Announcements.

- Reception of stations currently broadcasting Traffic Announcements.



Hold for 2 seconds

Note:

- If the tuner cannot receive a station currently broadcasting a Traffic Announcement, "NO STATION" is displayed. The tuner then returns to the prior frequency.

9. PTY Alarm

The PTY Alarm function automatically lets you hear broadcasts of emergency announcements concerning natural disasters and other emergencies, regardless of the source you are listening to (tuner, built-in CD player or multi-CD player).

You can take advantage of the PTY Alarm function by tuning to an FM RDS station.

1. Tune in a RDS station.

The “RDS” indicator lights when the tuner is tuned to a RDS station.

2. If the tuner receives a radio alarm code, “ALARM” is indicated in the display, and the tuner switches to reception of an emergency announcement.

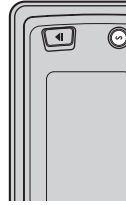


Note:

- The system switches back to the original source following emergency announcement reception.
- In the built-in CD player or multi-CD player mode, the tuner automatically seeks out the RDS station with the strongest signal in the current area 10 seconds after RDS station reception has become impossible. (This function does not operate when the TA function is active.)

Canceling Emergency Announcements

- Press the SOURCE/OFF button during emergency announcement reception to cancel the announcement and return to the original source.



10. Radio Text

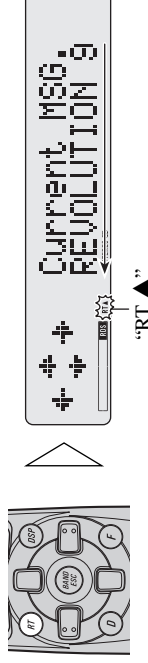
This tuner can display Radio Text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist.

Note:

- When Radio Text is received, the “RT ▲” indicator lights.
- The tuner automatically memorizes the three latest Radio Text broadcasts received, replacing text from the least recent reception with new text when it is received.
- You can store data from up to four Radio Text transmissions in buttons 1–4.

Radio Text display

1. Switch to the Radio Text mode.



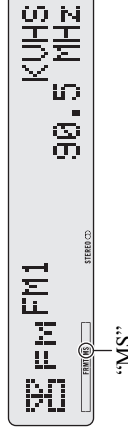
Radio Text data currently being received is automatically scrolled in the display.

Note:

- Press the RT button once more, and the Radio Text mode is canceled.
- The Radio Text mode is canceled after text data has been scrolled through twice in the display.
- When no Radio Text is currently being received, “NO TEXT” is displayed, and the Radio Text mode is canceled after 5 seconds.

11. Multi-Station

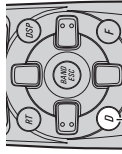
When "MS" is displayed, this indicates there are a number of stations having the same broadcasting frequency stored in the ID Logic database. For example, if you have performed Format Tuning; you may be listening to a station with a different format type than which you chose.



- Display Call Sign and Format indications, and confirm that Call Sign and Format agree with those of the program being broadcast.



Each press changes the Display ...



Each press changes the Display ...

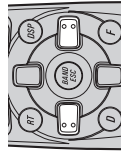


Note:

- If the format of the program differs from the format you want to listen to, perform Format Tuning, F, BSM or F, SCAN again.
- If the Call Sign and Format do not agree with those of the program, display indications change.

Changing Multi-Station Format

1. Select the Multi-Station mode (Multi ST) in the Function Menu.
2. Select Format.



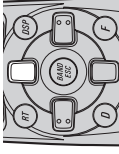
Pressing the button switches the Format of the station broadcasting on the frequency currently being received. Select the appropriate Format for the broadcast. To cancel the Function Menu, press the BAND button.

12. APF (Auto Position Following)

When the source is the tuner

When you drive away from the city vicinity to which the vehicle's location has been set to, the quality of the received station broadcast will deteriorate. Before searching for a new station, you must first update your vehicle's position.

1. Select the APF start mode (APF) in the Function Menu.
2. Start APF.

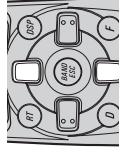


To cancel the Function Menu, press the BAND button.

When the source is a component other than the tuner

Your vehicle's position can be automatically updated at regular intervals when listening to a source other than tuner eg. CD; if APF has been turned on.

1. Select the APF ON/OFF mode (SET APF) in the Detailed Setting Menu.
2. Switch APF ON or OFF.

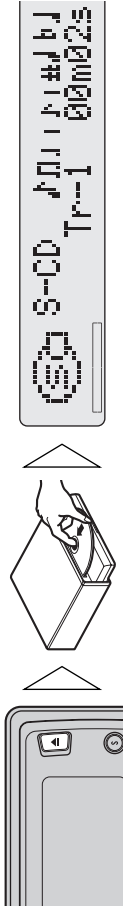


To cancel the Detailed Setting Menu, press the BAND button.

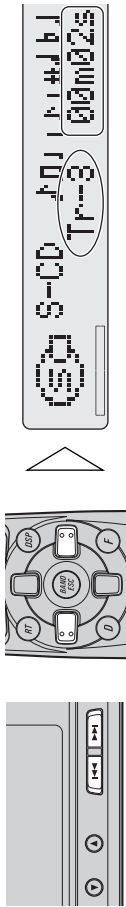
Basic Operation of the Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing an 8 cm CD.

1. Open the front panel and insert the disc with the label side up.



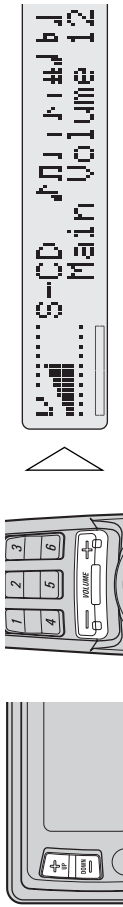
2. Select the desired track (or fast-forward/reverse, per the chart below).



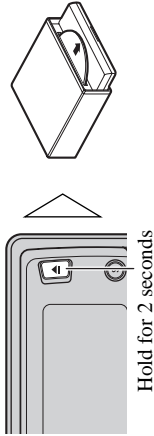
This product's built-in CD player lets you select the Track Search function or Fast-forward/Reverse function by changing the length of time you press the button.

Track Search	0.5 seconds or less
Fast-forward/Reverse	Continue pressing

3. Raise or lower the volume.



4. Remove the disc.



Hold for 2 seconds

Be sure to close the front panel after removing the disc.

Note:

- The CD function can be turned ON/OFF with the disc remaining in this product.
- Discs left partially inserted after ejection may incur damage or fall out.
- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down, hold down the OPEN/EJECT button for 2 seconds or more and check the disc for damage before reinserting it.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display.

Switching the Display (only for CD TEXT Discs)

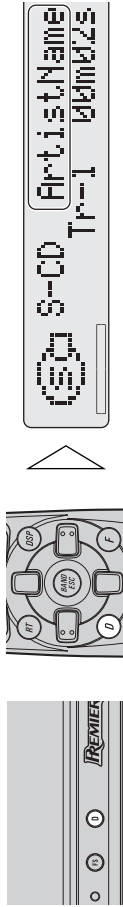
You can use this function when playing a CD TEXT disc.

Note:

- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.

Selecting the Display

- Select the desired display.



Each press of the DISPLAY button changes the display in the following order:

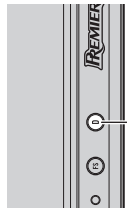
Disc Title → Artist Name → Track Title

Using the Built-in CD Player

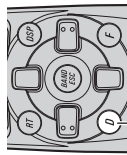
Scrolling the Display

This unit displays the first 10 letters only of Disc Title, Artist Name and Track Title. With text longer than 10 letters, you can see the rest of the text by scrolling.

- **Scroll the display.**



Hold for 2 seconds



Hold for 2 seconds

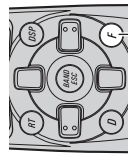
Note:

- You cannot input a disc title with a CD TEXT disc.

Entering the Function Menu

In this menu you can select built-in CD player functions.

- **Select the desired mode in the Function Menu.**



Each press changes the Mode ...

Each press of the FUNCTION button selects the mode in the following order:

Repeat → Random → Scan → Pause → COMP and DBE

To cancel the Function Menu, press the BAND button.

Note:

- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Using Multi-CD Players

This product can control one or more multi-CD players. (There are some types of Multi-CD players such as the "CDX-P636" which enable connection of a single unit only.)

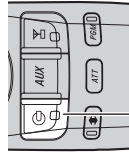
Basic Operation of Multi-CD Players

1. **Select the multi-CD player source.**



Each press

changes the Source ...



Each press

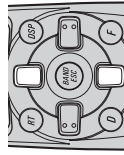
changes the Source ...



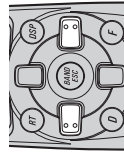
Note:

- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, "NO DISC" is displayed.

2. **Select the desired disc.**



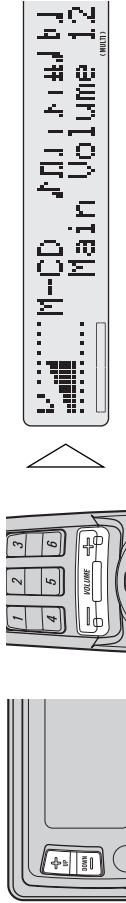
3. **Select the desired track (or fast-forward/reverse, per the chart below).**



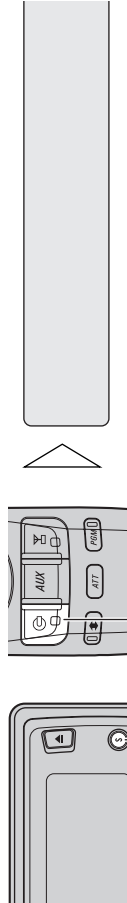
This product lets you select the track search function or fast-forward/reverse function by changing the length of time you press the button.

Track search	0.5 seconds or less
Fast-forward/Reverse	Continue pressing

4. Raise or lower the volume.



5. Turn the source OFF.



Hold for 1 second
Each press
changes the Source ...

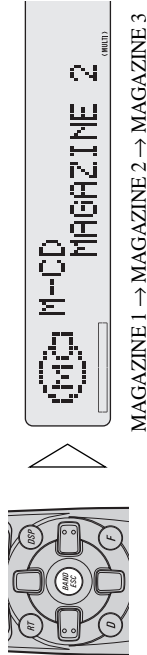
Playing Discs on a 50-Disc Type Multi-CD Player

When a magazine is loaded into a 50-Disc type multi-CD player, information on all the discs in the magazine is read.
If you start playing a disc on a 50-Disc type multi-CD player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using a number of functions. (If you try and use these functions, "NOT READY" is displayed.)
If this happens, reading of information begins again when you switch to a component other than 50-Disc type multi-CD player.

Switching the Multi-CD Player

It is possible to connect up to three multi-CD players by means of a multiple installation adapter. When two or more multi-CD players are installed, their priorities must be specified. Follow the multi-CD player instructions carefully, and set the address switches properly.

- **Select the multi-CD player you want to use.**



MAGAZINE 1 → MAGAZINE 2 → MAGAZINE 3

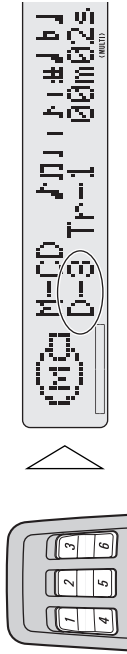
Disc Number Search

Disc Number Search (for 6-Disc 12 -Disc types)

You can select discs directly with the 1–6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1–6 buttons for 2 seconds or longer.
- **Select the desired disc. (e.g. Press button 3.)**



Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1–5 buttons. The 50 discs are divided into five blocks, with each of the 1–5 buttons assigned to a block.
For example, if you press button 1, discs 10 through 19 are searched in order, and then the disc with the lowest disc number is selected.

Note:

- Pressing button 5 lets you select the 50th disc only.
- Button 6 does not operate.
- Rough search of discs 1 to 9 is not possible. Use the ▲/▼ buttons to select a desired disc.
- "NOW LOADING" will be displayed in the following cases:
 - * If the disc in the extra tray is selected.
 - * If the disc is moved from the extra tray to the magazine.(Refer to the 50-Disc type multi-CD player's owner's manual.)

8.2 SPECIFICATIONS

● DEX-P1R/UC

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	4 A
Dimensions	
(DIN) (chassis)	178 (W) × 50 (H) × 155 (D) mm [7 (W) × 2 (H) × 6-1/8 (D) in]
(nose)	188 (W) × 58 (H) × 20 (D) mm [7-3/8 (W) × 2-1/4 (H) × 3/4 (D) in]
(D) (chassis)	178 (W) × 50 (H) × 160 (D) mm [7 (W) × 2 (H) × 6-1/4 (D) in]
(nose)	170 (W) × 46 (H) × 15 (D) mm [6-3/4 (W) × 1-7/8 (H) × 5/8 (D) in]
Weight	1.8 kg (4.0 lbs)

Preout

Maximum preout output level	4 V
Preout impedance	less than 100 Ω

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz Number of quantization bits: 16; linear
Frequency characteristics	5 – 20,000 Hz
Signal-to-noise ratio	120 dB (1 kHz) (IHF-A network)
Dynamic range	98 dB (1 kHz)
Number of channel	2 (stereo)

FM tuner

Frequency range	87.9 – 107.9 MHz
Usable sensitivity	11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IHF-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)
Selectivity	70 dB (2ACA)
Three-signal intermodulation (desire signal level)	
	50 dBf (two undesire signal level: 110 dBf)

AM tuner

Frequency range	530 – 1,710 kHz
Usable sensitivity	18 μV (S/N: 20 dB)
Selectivity	50 dB (±10 kHz)

DSP

Equalizer (13 Band Graphic Equalizer)	
Frequency	50, 80, 125, 200, 315, 500, 800, 1,25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)
Level	± 12 dB (2 dB)
Auto Equalizer (STD Mode)	
Front and Rear and Subwoofer 13 band graphic +	
Rear 2 band parametric	
Frequency (Front and Rear and Subwoofer)	50, 80, 125, 200, 315, 500, 800, 1,25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)
Frequency (Rear)	100 Hz – 8 kHz (1/3 oct)
Level	+6 – -12 dB (2 dB)
Q Factor (Rear)	1.2, 3.6
Auto Equalizer (PRO Mode)	
(13 band graphic)	
Frequency	50, 80, 125, 200, 315, 500, 800, 1,25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)
Level	+6 – -12 dB (2 dB)
Network (STD Mode)	
Front/Rear	HPF frequency: 50, 80, 125, 200 (Hz) Slope: 0, -6, -12 dB/oct Level: 0 – -24 dB (1 dB)
Subwoofer (Mono)	
	LPF frequency: 50, 63, 80, 100, 125, 160, 200 (Hz) Slope: -6, -12, -18 dB/oct Level: +6 – -24 dB (1 dB) Phase: Normal/Reverse

Network (PRO Mode)

High	HPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k, 6.3 k, 8 k, 10 k, 12.5 k (Hz) Slope: -6, -12, -18, -24 dB/oct Level: +6 – -24 dB (1 dB) Phase: Normal/Reverse
Mid	LPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k, 6.3 k, 8 k, 10 k, 12.5 k (Hz) HPF frequency: 40, 50, 63, 80, 100, 125, 160, 200, 250 (Hz) Slope: 0, -6, -12, -18, -24 dB/oct Level: 0 – -24 dB (1 dB) Phase: Normal/Reverse
Low (Stereo/Mono)	LPF frequency: 40, 50, 63, 80, 100, 125, 160, 200, 250 (Hz) Slope: -12, -18, -24, -30, -36 dB/oct Level: +6 – -24 dB (1 dB) Phase: Normal/Reverse
Time Alignment	0 – 400 cm (2 cm) 0 – 160 inch (0.5 inch)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

General

Power source 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system Negative type
Max. current consumption (DEH-P946/ES) 10 A
Max. current consumption (DEX-P1/ES) 4 A
Dimensions
(DIN) (chassis) 178 (W) × 50 (H) × 155 (D) mm
(nose) 188 (W) × 58 (H) × 20 (D) mm
(D) (chassis) 178 (W) × 50 (H) × 160 (D) mm
(nose) 170 (W) × 46 (H) × 15 (D) mm
Weight 1.8 kg

Amplifier (DEH-P946/ES)

Continuous power output is 20 W per channel min.
into 4 ohms, both channels driven 50 to 15,000 Hz
with no more than 5% THD.
Maximum power output 40 W × 4
Load impedance 4 Ω (4 – 8 Ω allowable)
Preout output level/output impedance 500 mV/1 kΩ

Preout (DEX-P1/ES)

Maximum preout output level 4 V
Preout impedance less than 100 Ω

CD player

System Compact disc audio system
Usable discs Compact disc
Signal format Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics 5 – 20,000 Hz
Signal-to-noise ratio 112 dB (1 kHz) (IEC-A network)
(DEH-P946/ES)
Signal-to-noise ratio 120 dB (1 kHz) (IEC-A network)
(DEX-P1/ES)
Dynamic range 98 dB (1 kHz)
Number of channel 2 (stereo)

FM tuner

Frequency range 87.5 – 108 MHz
Usable sensitivity
..... 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity 16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio 70 dB (IEC-A network)
Distortion 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response 30 – 15,000 Hz (±3 dB)
Stereo separation 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range 531 – 1,602 kHz (9 kHz)
..... 530 – 1,710 kHz (10 kHz)
Usable sensitivity 18 μV (S/N: 20 dB)
Selectivity 50 dB (±9 kHz)
..... 50 dB (±10 kHz)

DSP

Equalizer (13 Band Graphic Equalizer)
Frequency 50, 80, 125, 200, 315, 500, 800,
1.25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)
Level ± 12 dB (2 dB)
Auto Equalizer (STD Mode)
(Front and Rear and Subwoofer 13 band graphic +
Rear 2 band parametric)
Frequency (Front and Rear and Subwoofer)
..... 50, 80, 125, 200, 315, 500, 800,
1.25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)
Frequency (Rear) 100 Hz – 8 kHz (1/3 oct)
Level +6 – –12 dB (2 dB)
Q Factor (Rear) 1.2, 3.6
Auto Equalizer (PRO Mode)
(13 band graphic)
Frequency 50, 80, 125, 200, 315, 500, 800,
1.25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)
Level +6 – –12 dB (2 dB)
Network (STD Mode)
Front/Rear HPF frequency: 50, 80, 125, 200 (Hz)
Slope: 0, –6, –12 dB/oct
Level: 0 – –24 dB (1 dB)
Subwoofer (Mono)
..... LPF frequency: 50, 63, 80, 100,
125, 160, 200 (Hz)
Slope: –6, –12, –18 dB/oct
Level: +6 – –24 dB (1 dB)
Phase: Normal/Reverse

Network (PRO Mode)

High HPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k,
6.3 k, 8 k, 10 k, 12.5 k (Hz)
Slope: –6, –12, –18, –24 dB/oct
Level: +6 – –24 dB (1 dB)
Phase: Normal/Reverse
Mid LPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k,
6.3 k, 8 k, 10 k, 12.5 k (Hz)
HPF frequency: 40, 50, 63, 80, 100, 125,
160, 200, 250 (Hz)
Slope: 0, –6, –12, –18, –24 dB/oct
Level: 0 – –24 dB (1 dB)
Phase: Normal/Reverse
Low (Stereo/Mono)
..... LPF frequency: 40, 50, 63, 80, 100,
125, 160, 200, 250 (Hz)
Slope: –12, –18, –24, –30, –36 dB/oct
Level: +6 – –24 dB (1 dB)
Phase: Normal/Reverse
Time Alignment 0 – 400 cm (2 cm)
0 – 160 inch (0.5 inch)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.